

Publikationen

1. R. Schneider, T. Jüstel, K. Wieghardt, B. Nuber, Mononuclear Ruthenium(III) Complexes of the Type LRuX_3 ($\text{X} = \text{Cl}^-$, NCO^- , NCS^- , N_3^- , $\text{L} = 1,4,7$ -Trimethyl-1,4,7-triazacyclononan), *Z. Naturforsch.* **49b** (1994) 330-336, DOI: 10.1515/znb-1994-0307
2. T. Jüstel, T. Weyhermüller, K. Wieghardt, E. Bill, M. Lengen, M. Grodziecki, A.X. Trautwein, μ -Nitrido Di-Iron Complexes with the Asymmetric $[\text{Fe}^{\text{IV}}=\text{N}-\text{Fe}^{\text{III}}]^{4+}$ - and the Symmetric $[\text{Fe}^{\text{IV}}=\text{N}=\text{Fe}^{\text{IV}}]^{5+}$ -Core, *Angew. Chem.* **107** (1995) 744, *Angew. Chem. Int. Ed. Engl.* **34** (1995) 669-672, DOI: 10.1002/anie.199506691
3. T. Jüstel, T. Weyhermüller, K. Wieghardt, E. Bill, M. Lengen, M. Grodziecki, A.X. Trautwein, Novel μ -Nitrido Di-Iron Complexes with the Asymmetric $[\text{Fe}^{\text{IV}}=\text{N}-\text{Fe}^{\text{III}}]^{4+}$ - and the Symmetric $[\text{Fe}^{\text{IV}}=\text{N}=\text{Fe}^{\text{IV}}]^{5+}$ -Core, *J. Inorganic Biochemistry* **59** (1995) 343, DOI: 10.1016/0162-0134(95)97442-S
4. A.X. Trautwein, K. Wieghardt, K. Mochizuki, F. Kesting, T. Weyhermüller, C. Butzlaff, H. Paulsen, X. Ding, M. Grodzicki, R. Hartung, F. Birkelbach, M. Winter, U. Florke, H.J. Haupt, M. Lengen, E. Bill, P. Chaudhuri, T. Beissel, T. Glaser, C. Krebs, T. Jüstel, P. Hildebrandt, *Electronic Properties of Paramagnetic and Exchange-Coupled Transition Metal Centers in Biomimetic Systems*, *Bioinorganic Chemistry*, Trautwein, A.X., Ed.; Wiley-VCH Verlag GmbH, Weinheim, Germany, 1997, pp 741-759, ISBN-13: 9783527271405
5. T. Jüstel, J. Bendix, N. Metzler, T. Weyhermüller, B. Nuber, K. Wieghardt, Ruthenium Complexes Containing Non-innocent *o*-Benzoquinonediimine/*o*-Phenyldiamide(2-) Ligands. Synthesis and Crystal Structure of the Nitrido Bridged Complex $[(\text{LRu}(\text{o-C}_6\text{H}_4(\text{NH})_2))_2(\mu\text{-N})](\text{PF}_6)_2 \cdot 3\text{CH}_3\text{CN} \cdot \text{C}_6\text{H}_5\text{CH}_3$, *Inorg. Chem.* **37** (1998) 35-43, DOI: 10.1021/ic970850o
6. C.R. Ronda, T. Jüstel, H. Nikol, *Rare Earth Phosphors: Fundamentals and Application*, *J. Alloys and Compounds* **275-277** (1998) 669-676, DOI: 10.1016/S0925-8388(98)00416-2
7. T. Jüstel, H. Nikol, C.R. Ronda, *New Developments in the Field of Luminescent Materials for Lighting and Displays*, *Angew. Chem.* **110** (1998) 3250-3271, DOI: 10.1002/(SICI)1521-3757(19981116)110:22<3250
8. H. Bechtel, W. Czarnojan, H. Gläser, T. Jüstel, H. Nikol, D.U. Wiechert, *Phosphor Research for PDP*, *Proc. of the 5th International Display Workshops* (1998) 593
9. C. Borgmann, T. Jüstel, U. Kynast, J. Sauer, F. Schüth, *Efficiently Emitting Rare-Earth Sodalites by Phase Transformation of Zeolite X and by Direct Synthesis*, *Adv. Materials* **11** (1999) 45-49, DOI: [https://doi.org/10.1002/\(SICI\)1521-4095\(199901\)11:1%3C45::AID-ADMA45%3E3.0.CO;2-A](https://doi.org/10.1002/(SICI)1521-4095(199901)11:1%3C45::AID-ADMA45%3E3.0.CO;2-A)
10. T. Jüstel, H. Bechtel, H. Nikol, C.R. Ronda, D.U. Wiechert, *Improvement of VUV Phosphors for Plasma Display Panels*, *Proc. of the 7th Int. Symp. on Physics and*

- Chemistry of Luminescent Materials, edited by B. Di Bartolo, K.C. Mishra, C.W. Struck (1999) 103
11. C.R. Ronda, T. Jüstel, H. Nikol, Luminescent Materials: Shifting the Frontiers, Proc. of the 7th Int. Symp. on Physics and Chemistry of Luminescent Materials, edited by B. Di Bartolo, K.C. Mishra, C.W. Struck (1999) 120
 12. T. Jüstel, M. Müller, T. Weyhermüller, C. Kressl, E. Bill, P. Hildebrandt, M. Lengen, M. Grodzicki, A.X. Trautwein, B. Nuber, K. Wieghardt, The Molecular and Electronic Structure of Symmetrically and Asymmetrically Coordinated, Non-Heme Iron Complexes Containing $[\text{Fe}^{\text{III}}(\mu\text{-N})\text{Fe}^{\text{IV}}]^{4+}$ ($S = 3/2$) and $[\text{Fe}^{\text{IV}}(\mu\text{-N})\text{Fe}^{\text{IV}}]^{5+}$ ($S = 0$) Cores, Chem. Eur. J. **5** (1999) 793, DOI: 10.1002/(SICI)1521-3765(19990201)5:2<793
 13. T. Jüstel, H. Nikol, C.R. Ronda, Use of X-ray Diffraction in the Design and Development of Luminescent Materials in Industrial Applications of X-ray Diffraction, edited by M. Dekker, F.H. Chung, D.K. Smith (1999) 573
 14. C. Borgmann, J. Sauer, T. Jüstel, U. Kynast, F. Schüth, The Development of new Luminescent Materials from Zeolite XMRS Conference Proceedings, Proc. of the 12th Int. Zeolite Conf. (1999) 2241
 15. T. Jüstel, H. Nikol, Optimization of Luminescent Materials for Plasma Display Panels, Adv. Materials **12** (2000) 527, DOI: 10.1002/(SICI)1521-4095(200004)12:7<527
 16. H. Bechtel, T. Jüstel, H. Nikol, C.R. Ronda, D.U. Wiechert, E. vd Kolk, P. Dorenbos, C.W.E. van Eijk, Optimised Co-activated Willemite Phosphors for Application in Plasma Display Panels, J. Luminescence **87-89** (2000) 1246, DOI: 10.1016/S0022-2313(99)00529-3
 17. T. Jüstel, Designing UV Phosphor Blends for Tanning Lamps, Proc. of the 7th Int. Symp. on Physics and Chemistry of Luminescent Materials, edited by C.R. Ronda, L. Shea, A. Srivastava (2000) 127
 18. T. Jüstel, C. Feldmann, C.R. Ronda, Leuchtstoffe für aktive Displays, Physikalische Blätter **56** (2000) 55, DOI: 10.1002/phbl.20000560913
 19. V. van Elsbergen, P.K. Bachmann, T. Jüstel, Ion-Induced Secondary Electron Emission: A Comparative Study, Society for Information Display (SID) Digest (2000) 220, DOI: 10.1889/1.1832922
 20. C. Feldmann, T. Jüstel, C.R. Ronda, D.U. Wiechert, The Quantum Efficiency of Down-Conversion Phosphor $\text{LiGdF}_4\text{:Eu}$, J. Luminescence **92** (2001) 245, DOI: 10.1016/S0022-2313(00)00240-4
 21. T. Jüstel, D.U. Wiechert, J.-C. Krupa, VUV Spectroscopy of Luminescent Materials for Plasma Display Panels and Xe Discharge Lamps, J. Luminescence **93** (2001) 179, DOI: 10.1016/S0022-2313(01)00199-5

22. T. Jüstel, D.U. Wiechert, C. Lau, D. Sendor, U.H. Kynast, Optically Functional Zeolites: Evaluation of UV and VUV Photoluminescent Properties of Ce³⁺- and Tb³⁺-doped Zeolites, *Adv. Functional Materials* **11** (2001) 105, DOI: 10.1002/1616-3028(200104)11:2<105::AID-ADFM105>3.0.CO;2-J
23. H. Bechtel, T. Jüstel, H. Gläser, D.U. Wiechert, Phosphors for Plasma Display Panels: Demands and Achieved Performance, *J. of the Society for Information Display (SID)* **10/1** (2002) 63, DOI: 10.1889/1.1827845
24. M. Bredol, S. Gutzov, T. Jüstel, Luminescence of sol-gel-derived Silica Doped with Terbiumbenzoate Complex, *Optical Materials* **18** (2002) 337, DOI: 10.1016/S0925-3467(01)00173-2
25. T. Jüstel, H. Lade, W. Mayr, A. Meijerink, D.U. Wiechert, Thermoluminescence Spectroscopy of Eu²⁺ and Mn²⁺ Doped BaMgAl₁₀O₁₇:Eu, *J. Luminescence* **101** (2003) 195, DOI: 10.1016/S0022-2313(02)00413-1
26. M. Born, T. Jüstel, Umweltfreundliche Lichtquellen, *Physik Journal* **2** (2003) 43, DOI: 1617-9439/03/0202-4
27. T. Jüstel, H. Bechtel, W. Mayr, D.U. Wiechert, Blue Emitting BaMgAl₁₀O₁₇:Eu with a Blue Body Color, *J. Luminescence* **104** (2003) 137, DOI: 10.1016/S0022-2313(03)00010-3
28. M. Bredol, S. Gutzov, T. Jüstel, Highly efficient Energy Transfer from Ge-related Defects to Tb³⁺ Ions in sol-gel-derived glasses, *J. Non-Crystalline Solids* **321** (2003) 225, DOI: 10.1016/S0022-3093(03)00225-4
29. C. Feldmann, T. Jüstel, C.R. Ronda, P.J. Schmidt, Inorganic Luminescent Materials: 100 Years of Research and Application, *Adv. Funct. Mater.* **13** (2003) 511, DOI: 10.1002/adfm.200301005
30. D. Sendor, M. Hilder, T. Jüstel, P.C. Junk, U.H. Kynast, One Dimensional Energy Transfer in Lanthanoid Picolinates. Correlation of Structure and Spectroscopy, *New J. Chem.* **27** (2003) 1070, DOI: doi.org/10.1039/B302499G
31. M. Born, T. Jüstel, New Light Sources are Environmentally Friendly, *Europhotonics* (2004) 36
32. T. Jüstel, P. Huppertz, W. Mayr, D.U. Wiechert, Temperature Dependent Spectra of MePO₄ (Me = Ce, Pr, Nd, Bi), *J. Luminescence* **106** (2004) 225, DOI: 10.1016/j.jlumin.2003.10.004
33. R. Mueller-Mach, G.O. Mueller, M.R. Krames, H.A. Höpfe, F. Stadler, W. Schnick, T. Jüstel, P.J. Schmidt, Highly Efficient All Nitride White Light emitting Diodes, *Phys. Stat. Sol. A* **202** (2005) 1727 (Editor's Choice), DOI: 10.1002/pssa.200520045

34. A. Leleckaite, A. Kareiva, T. Jüstel, H.-J. Meyer, Sol-Gel Preparation and Characterization of Codoped Yttrium Aluminium Garnet Powders, *Z. Anorg. Allg. Chemie* **631** (2005) 2987, DOI: 10.1002/zaac.200500315
35. J. Plewa, T. Jüstel, Micro- and Nanopowders of Yttrium-Gadolinium Garnets, *Ceramika* **91** (2005) 953
36. M. Lezhnina, T. Jüstel, H. Kätker, D.U. Wiechert, U. Kynast, Efficient Luminescence from Rare Earth Fluoride Nanoparticles with Optically Functional Shells, *Adv. Funct. Mater.* **16** (2006) 935, DOI: 10.1002/adfm.200500197
37. M. Born, T. Jüstel, Elektrische Lichtquellen, *Chemie in unserer Zeit* **40** (2006) 294, DOI: 10.1002/ciuz.200600377
38. V. Bachmann, T. Jüstel, A. Meijerink, C.R. Ronda, P.J. Schmidt, Luminescence Properties of $\text{SrSi}_2\text{O}_2\text{N}_2$ Doped with Divalent Rare Earth Ions, *J. Luminescence* **121** (2006) 441, DOI: 10.1016/j.jlumin.2005.11.008
39. D. Bertram, M. Born, T. Jüstel, Incoherent Light Sources in Handbook of Lasers and Optics, Springer-Verlag (2007), DOI: 10.1007/978-3-642-19409-2
40. J. Plewa, T. Jüstel, Phase Transition of YBO_3 , *J. Therm. Analysis and Calorimetry* **88** (2007) 531, DOI: 10.1007/s10973-006-8029-9
41. J. Sindlinger, J. Glaser, H. Bettentrup, T. Jüstel und H.-J. Meyer, Synthese von $\text{Y}_2\text{O}_2(\text{CN}_2)$ und Leuchtstoffeigenschaften von $\text{Y}_2\text{O}_2(\text{CN}_2):\text{Eu}$, *Zeitschrift für Anorg. Allg. Chem.* **633** (2007) 1686, DOI: 10.1002/zaac.200700150
42. D. Uhlich, P. Huppertz, D.U. Wiechert, T. Jüstel, Preparation and Characterization of Nanoscale Lutetium Aluminium Garnet Powders Doped by Eu^{3+} and Pr^{3+} , *Opt. Mater.* **29** (2007) 1505, DOI: 10.1016/j.optmat.2006.07.013
43. G.B. Deacon, S. Hein, T. Jüstel, W. Lee, D.R. Turner, Structural Variations in Rare Earth Benzoate Complexes, *Cryst. Eng. Comm.* **9** (2007) 1110, DOI: 10.1039/B708589C
44. T. Jüstel, C.R. Ronda, Nanophosphors in Luminescence, edited by C.R. Ronda, Wiley VCH (2007) 35, DOI: 10.1002/9783527621064
45. T. Jüstel, Phosphors for Plasma Display Panels in Luminescence, edited by C.R. Ronda, Wiley VCH (2007) 61, DOI: 10.1002/9783527621064
46. T. Jüstel, Luminescent Materials for Phosphor Converted LEDs in Luminescence, edited by C.R. Ronda, Wiley VCH (2007) 179, DOI: 10.1002/9783527621064
47. M. Born, T. Jüstel, Visible Light Sources in Infrared, Light, Ultraviolet, Laser- and X-ray tubes in Vacuum Electronics - Components and Devices, edited by J. Eichmeier and M. Thumm, Springer (2008) 303, DOI: 10.1007/978-3-540-71929-8

48. A. Katelnikovas, T. Jüstel, D. Uhlich, J.-E. Jörgensen S. Sakirzanovas, A. Kareiva, Characterization of Cerium-Doped Yttrium Aluminium Garnet Nanopowders Synthesized via Sol-Gel Process, *Chem. Eng. Comm.* **195** (2008) 758, DOI: 10.1080/00986440701691194
49. J. Plewa, T. Jüstel, Synthesis and luminescent properties of yttrium disilicate host lattices doped by trivalent Praseodymium, *Ceramics* **103** (2008) 95
50. D. Uhlich, T. Jüstel, J. Plewa, Phase Formation and Characterization of $\text{Sr}_3\text{Y}_2\text{Ge}_3\text{O}_{12}$, $\text{Sr}_3\text{In}_2\text{Ge}_3\text{O}_{12}$, and $\text{Ca}_3\text{Ga}_2\text{Ge}_3\text{O}_{12}$ Doped by Trivalent Europium, *J. Luminescence* **128** (2008) 1649, DOI: 10.1016/j.jlumin.2008.03.022
51. T. Jüstel, M. Hemschemeier, Leuchtstoffentwicklung im Merck Lab, *Wirtschaft Münsterland* **3** (2008) 34
52. H. Hummel, P.K. Bachmann, T. Jüstel, J. Merikhi, C.R. Ronda, V. Weiler, Near-Infrared Luminescent Nano Materials for In-Vivo Optical Imaging, *J. Nanophotonics* **2** (2008) 021920, DOI: 10.1117/1.3039801
53. J. Glaser, L. Unverfehrt, H. Bettentrup, G. Heymann, H. Huppertz, T. Jüstel, H.-J. Meyer, Crystal Structures, Phase-Transition and Photoluminescence of Rare-Earth Carbodiimides, *Inorg. Chem.* **47** (2008) 10455, DOI: 10.1021/ic800985k
54. D. Michalik, J. Plewa, M. Sopicka-Lizer, T. Jüstel, Cerium doped yttrium aluminium garnet modied by silicon and nitrogen, *Ceramic Materials* **60** (2008) 225
55. J. Plewa, A. Katelnikovas, T. Jüstel, On the Luminescence of LuAG:Pr Ceramic Bodies, *Ceramic Materials* **60** (2008) 229
56. D. Dacyl, D. Uhlich, T. Jüstel, The Effect of Calcium Substitution on the Afterglow of $\text{Eu}^{2+}/\text{Dy}^{3+}$ doped $\text{Sr}_4\text{Al}_{14}\text{O}_{25}$, *Central Europ. J. Chem.* **7** (2009) 164, DOI: 10.2478/s11532-009-0017-z
57. A. Katelnikovas, T. Jüstel, H. Bettentrup, D. Uhlich, S. Sakirzanovas and A. Kareiva, Synthesis and Optical Properties of Ce^{3+} Doped $\text{Y}_3\text{Mg}_2\text{AlSi}_2\text{O}_{12}$ Phosphors, *J. Luminescence* **129** (2009) 1356, DOI: 10.1016/j.jlumin.2009.07.006
58. M. Ströbele, T. Jüstel, H. Bettentrup, and H.-J. Meyer, The Synthesis and Luminescence of W_6Cl_{12} and $\text{Mo}_6\text{Cl}_{12}$ Revisited: Crystal Structures of $\text{BiW}_6\text{Cl}_{15}$, Intermediate $(\text{H}_3\text{O})_2[\text{W}_6\text{Cl}_{14}] \cdot 7\text{H}_2\text{O}$, and of the Side Phase $(\text{H}_5\text{O}_2)_2[\text{W}_6\text{Cl}_{12}\text{O}_6] \cdot 4\text{H}_2\text{O}$, *Z. Anorg. Allg. Chem.* **635** (2009) 822, DOI: doi.org/10.1002/zaac.200801383
59. C.R. Ronda, J.M. Gondek, E. Goirand, T. Jüstel, M. Bettinelli and A. Meijerink, Optical Materials for Medical Applications: an Overview of Ultrafast Emitting Oxidic Pr^{3+} Scintillating Materials, *Material Research Society Symposium D Proceedings* **1111** (2009) 1111-D08-01, DOI: 10.1557/PROC-1111-D08-01

60. T. Jüstel, U. Slabke, Sparsam im Verbrauch und wartungsarm, Solares Bauen **7-8** (2009) 59
61. J. Glaser, H. Bettentrup, T. Jüstel, H.-J. Meyer, Properties of Tetracyanamidosilicates, Inorg. Chem. **49** (2010) 2954, DOI: 10.1021/ic902498p
62. A. Katelnikovas, T. Bareika, P. Vitta, T. Jüstel, H. Winkler, A. Kareiva, A. Žukauskas, G. Tamulaitis, $\text{Y}_3\text{Mg}_2\text{AlSi}_2\text{O}_{12}$ Phosphors: Prospectives for White LEDs, Opt. Mat. **32** (2010) 1261, DOI: 10.1016/j.optmat.2010.04.031
63. J. Plewa, T. Jüstel, Synthesis and Optical Characterisation of Pr^{3+} Doped UV Emitting Luminescent Ceramics, Materials Science Forum **636-637** (2010) 344, DOI: 10.4028/www.scientific.net/MSF.636-637.344
64. A. Katelnikovas, J. Jurkevičius, K. Kazlauskas, P. Vitta, T. Jüstel, A. Kareiva, A. Žukauskas, G. Tamulaitis, Efficient cerium-based sol-gel derived phosphors in different garnet matrices for light-emitting diodes, J. Alloys and Comp. **509** (2011) 6247, DOI: 10.1016/j.jallcom.2011.03.032
65. A. Katelnikovas, H. Winkler, A. Kareiva and T. Jüstel, Synthesis and optical properties of green to orange tunable garnet phosphors for pcLEDs, Opt. Materials **33** (2011) 992, DOI: 10.1016/j.optmat.2010.11.023
66. V. Tomkute, A. Kareiva, A. Katelnikovas, H. Bettentrup, T. Jüstel, Synthesis and Optical Properties of Novel $\text{Ba}_{2-x}\text{Eu}_x\text{Zr}_{2-y}\text{Hf}_y\text{Si}_3\text{O}_{12}$ Phosphor, Opt. Materials **33** (2011) 1272, DOI: 10.1016/j.optmat.2011.02.033
67. S. Sakirzanovas, H. Bettentrup, A. Katelnikovas, A. Kareiva, T. Jüstel, Synthesis and Photoluminescence Properties of Sm^{3+} doped $\text{LaMgB}_5\text{O}_{10}$ and $\text{GdMgB}_5\text{O}_{10}$, J. Luminescence **131** (2011) 1525, DOI: 10.1016/j.jlumin.2011.02.005
68. S. Sakirzanovas, D. Dutczak, A. Katelnikovas, A. Kareiva, T. Jüstel, Synthesis and Photoluminescence Properties of Mixed-valence Samarium-doped $\text{Sr}_4\text{Al}_{14}\text{O}_{25}$, J. Luminescence **131** (2011) 2255, DOI: 10.1016/j.jlumin.2011.05.060
69. M. Sopicka-Lizer, D. Michalik, J. Plewa, T. Jüstel, H. Winkler, T. Pawlik, The effect of Al-O substitution for Si-N on the luminescence properties of YAG:Ce phosphor, J. of the European Ceramic Society **32** (2011) 1299, DOI: 10.1016/j.jeurceramsoc.2011.04.021
70. A. Katelnikovas, H. Bettentrup, D. Dutczak, A. Kareiva and T. Jüstel, On the Correlation between the Composition of Pr^{3+} doped Garnet Type Materials and their Photoluminescence Properties, J. Luminescence **131** (2011) 2754, DOI: 10.1016/j.jeurceramsoc.2011.04.021
71. A. Katelnikovas, J.M. Ogieglo, H. Winkler, A. Kareiva, T. Jüstel, $\text{Y}_3\text{Mg}_2\text{AlSi}_2\text{O}_{12}$ Phosphors, J. Sol-Gel Sci. Technol. **59** (2011) 311, DOI: 10.1016/j.jlumin.2011.06.012

72. S. Sakirzanovas, D. Dutczak, A. Katelnikovas, A. Kareiva, T. Jüstel, Concentration Influence on Temperature-dependent Luminescence Properties of Samarium Substituted Strontium Tetraborate, *J. Luminescence* **132** (2012) 141, DOI: 10.1007/s10971-011-2502-z
73. A. Katelnikovas, J. Plewa, D. Dutczak, S. Möller, D. Enseling, H. Winkler, A. Kareiva, T. Jüstel, Synthesis and Optical Properties of Green Emitting Garnet Phosphors for Phosphor Converted Light Emitting Diodes, *Opt. Materials* **34** (2012) 1195, DOI: 10.1016/j.jlumin.2011.08.011
74. D. Dutczak, A. Katelnikovas, A. Milbrat, A. Meijerink, C.R. Ronda, T. Jüstel, Yellow Persistent Luminescence of $\text{Sr}_2\text{SiO}_4:\text{Eu}^{2+},\text{Dy}^{3+}$, *J. Luminescence* **132** (2012) 2398, DOI: 10.1016/j.optmat.2012.01.034
75. T. Jüstel, Inkohärente Lichtquellen im Wandel der Zeit, *CHEManager* **13-14** (2012) 11
76. N. Wagner, B. Herden, T. Dierkes, J. Plewa, T. Jüstel, Towards the Preparation of Transparent $\text{LuAG}:\text{Nd}^{3+}$ Ceramics, *J. Europ. Ceram. Soc.* **32** (2012) 3085, DOI: 10.1016/j.jeurceramsoc.2012.03.015
77. E. Broda-Kaczmarek, T. Vosgroene, H. Winkler, J. Plewa, T. Jüstel, The Improvement of Moisture Stability of Yellow Phosphor Encapsulated with SiO_2 , *Inzynieria Materialowa* **187** (2012) 122
78. T. Jüstel, S. Möller, H. Winkler, W. Adam, Luminescent Materials in Ullmann's Encyclopedia of Industrial Chemistry, Vol. A1-28, Wiley-VCH (2012)
79. A. Katelnikovas, J. Plewa, S. Sakirzanovas, D. Dutczak, D. Enseling, F. Baur, H. Winkler, A. Kareiva, T. Jüstel, Synthesis and Optical Properties of $\text{Li}_3\text{Ba}_2\text{La}_3(\text{MoO}_4)_8:\text{Eu}^{3+}$ Powder and Ceramics for pcLEDs, *Journal of Materials Chemistry* **22** (2012) 22126, DOI:
80. J.M. Ogieglo, A. Zych, K.V. Ivanovskikh, T. Jüstel, C.R. Ronda, A. Meijerink, Luminescence and Energy Transfer in Gd Scintillators Codoped with Ce^{3+} and Tb^{3+} , *J. Phys. Chem. A* **116** (2012) 8464, DOI: 10.1021/jp301337f
81. A. Katelnikovas, S. Sakirzanovas, D. Dutczak, J. Plewa, D. Enseling, H. Winkler, A. Kareiva, T. Jüstel, Synthesis and Optical Properties of Yellow Emitting Garnet Phosphors for pcLEDs, *J. Luminescence* **136** (2013) 17, DOI: 10.1016/j.jlumin.2012.11.012
82. M. Kubus, D. Enseling, T. Jüstel, H.-Jürgen Meyer, Synthesis and Luminescent Properties of Red-Emitting Phosphors: $\text{ZnSiF}_6 \cdot 6\text{H}_2\text{O}$ and $\text{ZnGeF}_6 \cdot 6\text{H}_2\text{O}$ Doped with Mn^{4+} , *J. Luminescence* **137** (2013) 88, DOI: 10.1016/j.jlumin.2012.12.038
83. D. Dutczak, A. Meijerink, C.R. Ronda, T. Jüstel, Red Luminescence and Persistent Luminescence of $\text{Sr}_3\text{Al}_2\text{O}_5\text{Cl}_2:\text{Eu}^{2+},\text{Dy}^{3+}$, *J. Luminescence* **137** (2013) 150, DOI: 10.1016/j.jlumin.2013.02.012

84. J.M. Ogieglo, A. Zych, T. Jüstel, C.R. Ronda, A. Meijerink, Luminescence and Energy Transfer in $\text{Lu}_3\text{Al}_5\text{O}_{12}$ Scintillators Codoped with Ce^{3+} and Pr^{3+} , *Opt. Mater.* **35** (2013) 322, DOI: 10.1016/j.optmat.2012.08.010
85. M. Kubus, D. Enseling, T. Jüstel, H.-J. Meyer, A Luminescent Material: $\text{La}_3\text{Cl}(\text{CN}_2)\text{O}_3$ Doped with Eu^{3+} or Tb^{3+} Ions, *Eur. J. Inorg. Chem.* **18** (2013) 3195, DOI: 10.1002/ejic.201300224
86. B. Herden, J. Nordmann, R. Kompan, M. Haase, T. Jüstel, Vacuum-UV Excitation and Visible Luminescence of Nano-Scale and μ -Scale $\text{NaLnF}_4:\text{Pr}^{3+}$ ($\text{Ln} = \text{Y}, \text{Lu}$), *Opt. Materials* **35** (2013) 2062, DOI: 10.1016/j.optmat.2013.05.020
87. J.M. Ogieglo, A. Katelnikovas, A. Zych, T. Jüstel, C.R. Ronda, A. Meijerink, Luminescence and Luminescence Quenching in $\text{Gd}_3(\text{Ga},\text{Al})_5\text{O}_{12}$ Scintillators Doped with Ce^{3+} , *J. Phys. Chem. A* **117** (2013) 2479, DOI: 10.1021/jp309572p
88. M. Kalmutzki, D. Enseling, J. Wren, S. Kroeker, V. Terskikh, T. Jüstel, H.-J. Meyer, Solid State Complex Chemistry: Formation, Structure and Properties of Homoleptic Tetracyanamidogermanates: $\text{RbRE}[\text{Ge}(\text{CN}_2)_4]$ ($\text{RE} = \text{La}, \text{Pr}, \text{Nd}, \text{Gd}$), *Inorg. Chem.* **52** (2013) 12372, DOI: 10.1021/ic401201w
89. B. Herden, A. Meijerink, F.T. Rabouw, M. Haase, T. Jüstel, On the Efficient Luminescence of $\beta\text{-NaPrF}_4$, *J. Luminescence* **146** (2014) 302, DOI: 10.1016/j.jlumin.2013.09.072
90. S. Schwung, D. Rytz, A. Gross, U.Ch. Rodewald, R.-D. Hoffmann, B. Gerke, B. Heying, S. Schwickert, R. Pöttgen, T. Jüstel, $\text{LiEuMo}_2\text{O}_8$ – Crystal Growth, Structure, and Optical Properties, *Opt. Materials* **36** (2014) 585, DOI: 10.1016/j.optmat.2013.10.023
91. R. Skaudzius, A. Katelnikovas, D. Enseling, A. Kareiva, T. Jüstel, On the Dependence of the $^5\text{D}_0 \rightarrow ^7\text{F}_4$ Transition of Eu^{3+} Phosphates and Garnets, *J. Luminescence* **147** (2014) 290, DOI: 10.1016/j.jlumin.2013.11.051
92. F. Baur, A. Katelnikovas, S. Sakirzanovas, R. Petry, and T. Jüstel, Synthesis and Optical Properties of $\text{Li}_3\text{Ba}_2\text{La}_3(\text{MoO}_4)_8:\text{Sm}^{3+}$ Powders for pcLEDs, *Z. Naturforschung* **69b** (2014) 183, DOI: 10.5560/znb.2014-3279
93. D. Enseling, B. Herden, A. Katelnikovas, S. Möller, H. Winkler, R. Petry, H.-J. Meyer, and T. Jüstel, Powder Reflection Spectroscopy in the Vacuum UV Range, *J. Appl. Spectroscopy* **81** (2014) 327, DOI: 10.1007/s10812-014-9934-5
94. D. Dutczak, C.R. Ronda, T. Jüstel, A. Meijerink, Anomalous Trapped Exciton d-f Emission in $\text{Sr}_4\text{Al}_{14}\text{O}_{25}:\text{Eu}$, *J. Phys. Chem.* **118** (2014) 1617, DOI: 10.1021/jp500947q
95. A. Stanulis, A. Katelnikovas, D. Enseling, D. Dutczak, S. Sakirzanovas, M. van Bael, A. Hardy, A. Kareiva, T. Jüstel, Luminescence Properties of Sm^{3+} -Doped Alkaline Earth Ortho-Stannates, *Opt. Materials* **36** (2014) 1146, DOI: 10.1016/j.optmat.2014.02.018

96. M. Müller, T. Jüstel, On the Luminescence and Energy Transfer of White Emitting $\text{Ca}_3\text{Y}_2(\text{Si}_3\text{O}_9)_2:\text{Ce}^{3+},\text{Mn}^{2+}$ Phosphor, *J. Luminescence* **155** (2014) 398, DOI: 10.1016/j.jlumin.2014.06.035
97. S. Schwung, A. Rogov, G. Clarke, C. Joulaud, T. Magouroux, D. Staedler, S. Passemar, T. Jüstel, L. Badie, C. Galez, J.P. Wolf, Y. Volkov, A. Prina-mello, S. Gerber, D. Rytz, Y. Mugnier, L. Bonacina, R. Le Dantec, BiFeO_3 Nanocrystals for Bio-imaging based on Nonlinear Optical Harmonic Generation, *Journal of Applied Physics* **116** (2014) 114306, DOI: 10.1063/1.4895836
98. T. Jansen, T. Jüstel, On the Temperature Dependent Excitation and Reflection Spectra of $\text{Ln}_3\text{Al}_5\text{O}_{12}:\text{Ce}^{3+}$ Ceramics ($\text{Ln} = \text{Y}, \text{Lu}$) for White LEDs, *Mater. Sciences & Applications* **5** (2014) 1074, DOI: 10.4236/msa.2014.514110
99. S. Schwung, D. Enseling, V. Wesemann, D. Rytz, U.Ch. Rodewald, B. Gerke, B. Heying, O. Niehaus, R. Pöttgen, T. Jüstel, $\text{KYW}_2\text{O}_8:\text{Eu}^{3+}$ – A Closer Look on its Photoluminescence and Structure, *J. Luminescence* **157** (2015) 297, DOI: 10.1016/j.jlumin.2014.10.067
100. B. Herden, A. Garcia-Fuente, H. Ramanantoanina, C. Daul, T. Jüstel, W. Urland, Photon Cascade Emission in Pr^{3+} Doped Fluorides with CaF_2 Structure: Application of a Model for its Prediction, *Chem. Phys. Lett.* **620** (2015) 29, DOI: 10.1016/j.cplett.2014.12.013
101. S. Möller, A. Hoffmann, D. Knauth, J. Flottmann, T. Jüstel, Determination of VIS and NIR Quantum Yields of Nd^{3+} -Activated Garnets Sensitized by Ce^{3+} , *J. Luminescence* **158** (2015) 365, DOI: 10.1016/j.jlumin.2014.10.004
102. M. Kalmutzki, M. Ströbele, T. Jüstel, D. Enseling, H.-J. Meyer, Synthesis, Structure, and Luminescence of Rare Earth Cyanurates $\text{ARE}_2\text{Cl}(\text{O}_3\text{C}_3\text{N}_3)_2$, *Eur. J. Inorg. Chem.* **19** (2015) 134, DOI: 10.1002/ejic.201402697
103. M. Kubus, K. Levin, S. Kroeker, D. Enseling, T. Jüstel, J. Meyer, Structural and Luminescence Studies of the new Nitridomagnesoaluminate $\text{CaMg}_2\text{AlN}_3$, *Dalton Trans.* **44** (2015) 2819, DOI: 10.1039/c4dt03283g
104. F. Baur, F. Glocker, T. Jüstel, Photoluminescence and Energy Transfer Rates and Efficiencies in Eu^{3+} Activated $\text{Tb}_2\text{Mo}_3\text{O}_{12}$, *J. Materials Chemistry C* **3** (2015) 2054 (Hot Paper), DOI: 10.1039/C4TC02588A
105. T. Hummel, F. Salk, M. Ströbele, D. Enseling, T. Jüstel, J. Meyer, The Orthoperiodates of Calcium, Strontium and Barium, *Eur. J. Inorg. Chem.* **6** (2015) 977, DOI: 10.1002/ejic.201403094
106. M. Stroebele, K. Dolabjian, D. Enseling, D. Dutczak, B. Mihailova, T. Jüstel, H.-J. Meyer, Luminescence Matching with the Sensitivity Curve of the Human Eye: Optical Ceramics $\text{Mg}_{8-x}\text{M}_x(\text{BN}_2)_2\text{N}_4$ with $\text{M} = \text{Al}$ ($x = 2$) and $\text{M} = \text{Si}$ ($x = 1$), *Eur. J. Inorg. Chem.* **19** (2015) 1716, DOI: 10.1002/ejic.201403116

107. J. Schölch, T. Dierkes, D. Enseling, M. Ströbele, T. Jüstel, H.-J. Meyer, Synthesis and Photoluminescence Properties of the Red-Emitting Phosphor $\text{Mg}_2(\text{BN}_2)_2$ Doped with Eu^{2+} , *Z. Anorg. Allg. Chem.* **641** (2015) 803, DOI: 10.1002/zaac.201400487
108. M. Kubus, R. Heinicke, M. Ströbele, D. Enseling, T. Jüstel, J. Meyer, Synthesis of New Structurally Related Cyanamide Compounds $\text{LiM}(\text{CN}_2)_2$ where M is Al^{3+} , In^{3+} or Yb^{3+} , *Mater. Res. Bull.* **62** (2015) 37, DOI: 10.1016/j.materresbull.2014.10.073
109. L. Bonacina, D. Staedler, S. Passemard, T. Magouroux, A. Rogov, C.M. Maguire, B. M. Mohamed, S. Schwung, S. Hwu, D. Rytz, T. Jüstel, Y. Mugnier, R. LeDantec, Y. Volkov, S. Gerber-Lemaire, A. Prina-Mello, J.-P. Wolf, Cellular Uptake and Biocompatibility of Bismuth Ferrite Harmonic Advanced Nanoparticles, *Nanomedicine: Nanotechnology, Biology, and Medicine* **11** (2015) 815, DOI: 10.1016/j.nano.2014.12.018
110. M. Müller, T. Jüstel, Energy Transfer and Unusual Decay Behaviour of $\text{BaCa}_2\text{Si}_3\text{O}_9:\text{Eu}^{2+},\text{Mn}^{2+}$ Phosphor, *Dalton Transaction* **44** (2015) 10368, DOI: 10.1039/C5DT00591D
111. D. Dutczak, T. Jüstel, A. Meijerink, C.R. Ronda, Luminescence of Eu^{2+} in Strontium Aluminates, *Phys. Chem. Chem. Phys.* **17** (2015) 15236, DOI: 10.1039/C5CP01095K
112. T. Dierkes, P. Poes, T. Jüstel, On the Energy Transfer in $(\text{Y,Gd})\text{Al}_3(\text{BO}_3)_4:\text{Ln}^{3+}$ ($\text{Ln} = \text{Tb}^{3+}, \text{Dy}^{3+}$), *Opt. Mater.* **46** (2015) 16, DOI: 10.1016/j.optmat.2015.03.041
113. S. Schwung, D. Rytz, B. Heying, U. Rodewald, O. Niehaus, D. Enseling, T. Jüstel, R. Pöttgen, The Crystal Structure and Luminescence Quenching of Poly- and Single-Crystalline $\text{KYW}_2\text{O}_8:\text{Tb}^{3+}$, *J. Luminescence* **166** (2015) 289, DOI: 10.1016/j.jlumin.2015.05.052
114. M. Müller, T. Jüstel, Luminescence and Energy Transfer of Co-doped $\text{Sr}_5\text{MgLa}_2(\text{BO}_3)_6:\text{Ce}^{3+},\text{Mn}^{2+}$, *RSC Advances* **5** (2015) 67979, DOI: 10.1039/c5ra12951f
115. F. Baur, T. Jüstel, New Red Emitting Phosphor $\text{La}_2\text{Zr}_3(\text{MoO}_4)_9:\text{Eu}^{3+}$ and the Influence of Host Absorption on its Luminescence Efficiency, *Aust. J. Chem.* **68** (2015) 1727, DOI: 10.1071/CH15268
116. T. Jüstel, S. Schwung, *Leuchtstoffe-Lichtquellen-Laser-Lumineszenz*, Springer-Spektrum (2016) ISBN 978-3-662-48454-8
117. B. Malysa, A. Meijerink, T. Jüstel, Temperature Dependent Luminescence of Cr^{3+} -doped $\text{GdAl}_3(\text{BO}_3)_4$ and $\text{YAl}_3(\text{BO}_3)_4$, *J. Luminescence* **171** (2016) 246, DOI: 10.1016/j.jlumin.2015.10.042

118. S. Möller, A. Katelnikovas, M. Haase, T. Jüstel, New NIR Emitting Phosphor for Blue LEDs with Stable Light Output up to 180 °C, *J. Luminescence* **172** (2016) 185, DOI: 10.1016/j.jlumin.2015.11.040
119. A. Stanulis, A. Katelnikovas, M. Van Bael, A. Hardy, A. Kareiva, T. Jüstel, Luminescence Properties of Pr³⁺-doped Calcium and Strontium Stannates: Temperature Dependent Fluorescence Lifetime Measurements as a Suitable Tool for Monitoring Phase Transitions of Optically Active Materials, *J. Luminescence* **172** (2016) 323, DOI: 10.1016/j.jlumin.2015.11.021
120. M. Müller, M.-F. Volhardt, T. Jüstel, Photoluminescence and Afterglow of Deep Red Emitting SrSc₂O₄:Eu²⁺, *RSC Advances* **6** (2016) 8483, DOI: 10.1039/C5RA25686K
121. R. Skaudzius, A. Kareiva, T. Jüstel, Luminescence Properties of Ln³⁺-doped (Ce³⁺, Eu³⁺, Tb³⁺ or Er³⁺) Mixed-Metals Y₃(Al,In)₅O₁₂ and Y₃Al_{4.75}Cr_{0.25}O₁₂ Garnets Synthesized by Sol-Gel Method, *Mater. Chem. Phys* **170** (2016) 229, DOI: 10.1016/j.matchemphys.2015.12.043
122. L. Riehl, M. Ströbele, D. Enseling, T. Jüstel, H.J. Meyer, Molecular oxygen modulated luminescence of an *octahedro*-hexamolybdenum iodide cluster having six apical thiocyanate ligands, *Z. Anorg. Allg. Chem.* **5** (2016) 5063, DOI: 10.1002/zaac.201600021
123. D. Dutczak, K.M. Wurst, M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, Defect-related luminescence in new nitridoborate nitride, Mg₃Ga(BN₂)N₂, *Eur. J. Inorg. Chem.* **6** (2016) 861, DOI: 10.1002/ejic.201501090
124. T. Jansen, D. Böhnisch, T. Jüstel, On the Photoluminescence Linearity of Eu²⁺ based LED Phosphors upon High Excitation Density, *ECS Journal of Solid State Science and Technology* **5** (2016) R91, DOI: 10.1149/2.0101606jss
125. M. Broxtermann, T. Jüstel, Photochemically Induced Deposition of Protective Alumina Coatings onto UV Emitting Phosphors for Xe Excimer Discharge Lamps, *Mat. Res. Bull.* **80** (2016) 249, DOI: 10.1016/j.materresbull.2016.04.008
126. F. Baur, T. Jüstel, Dependence of the Optical Properties of Mn⁴⁺ Activated A₂Ge₄O₉ (A = K, Rb) on Temperature and Chemical Environment, *J. Luminescence* **177** (2016) 354, DOI: 10.1016/j.jlumin.2016.04.04
127. S. Seidel, T. Dierkes, T. Jüstel, C. Benndorf, H. Eckert, R. Pöttgen, Superstructure formation in SrBa₈[BN₂]₆ and EuBa₈[BN₂]₆, *Dalton Transactions* **45** (2016) 12078, DOI: 10.1039/C6DT02029A
128. M. Kubus, C. Castro, D. Enseling, T. Jüstel, J. Meyer, Room temperature red emitting carbodiimide compound Ca(CN₂):Mn²⁺, *Opt. Mater.* **59** (2016) 126, DOI: 10.1016/j.optmat.2016.01.006
129. J. Robert, V. Jordan, H. Kling, T. Jüstel, Alterungseffekte von Katalysatoren bei der Entfernung von Mikroschadstoffen in Abwässern mithilfe innovativer

- Photoreaktoren, *Chemie Ingenieur Technik* **88** (2016) 1322, DOI: 10.1002/cite.201650367
130. R. Skaudzius, D. Enseling, T. Jüstel, M. Skapas, A. Selskis, E. Pomjakushina, A. Kareiva, C. Rugg, Europium-Enabled Luminescent Single Crystal and Bulk YAG and YGG for Optical Imaging, *Opt. Mater.* **60** (2016) 467, DOI: 10.1016/j.optmat.2016.08.032
131. D. Dutczak, M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, $\text{Eu}_2(\text{CN}_2)_3$ and $\text{KEu}[\text{Si}(\text{CN}_2)_4]$ - Missing Members of the Rare Earth Carbodiimide and Tetracyanamidosilicate Series, *Eur. J. Inorg. Chem* **25** (2016) 4011, DOI: 10.1002/ejic.201600118
132. J. Flottmann, S. Möller, D. Enseling, T. Jüstel, Production of Singlet Oxygen for Water Purification via NIR-LED Radiation Sources and Porphyrin, *Research Gate* (2016) DOI: 10.13140/RG.2.1.3015.1764
133. L. Riehl, A. Seyboldt, M. Ströbele, D. Enseling, T. Jüstel, M. Westberg, P.R. Ogilby, and H.-J. Meyer, A Ligand Substituted Iodide Cluster: Luminescence vs. Singlet Oxygen Production, *Dalton Trans.* **45** (2016) 15500, DOI: 10.1039/C6DT02471H
134. E. Raudonyte-Svirbutaviciene, L. Mikoliunaite, A. Drabavicius, R. Juskenas, S. Sakirzanovas, T. Jüstel, A. Katelnikovas, Photochemical Synthesis of CeO_2 Nanoscale Particles Using Sodium Azide as a Photoactive Material, *RSC Advances* **6** (2016) 107065, DOI: 10.1039/C6RA22037A
135. M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, $(\text{W}_6\text{I}_8)\text{Cl}_4$ – A Basic Model Compound for Photophysically Active $[(\text{W}_6\text{I}_8)\text{L}_6]^{2-}$ Clusters?, *Z. Allg. Anorg. Chem.* **24** (2016) 1435, DOI: 10.1002/zaac.201600316
136. T. Jüstel, Anorganische Leuchtstoffe und LEDs, *CHEManager* **5** (2017) 9
137. T. Dierkes, J. Plewa, T. Jüstel, From Metals to Nitrides - Syntheses and Reaction Details of Binary Rare Earth Systems, *J. Alloys Compounds* **693** (2017) 291, DOI: 10.1016/j.jallcom.2016.09.139
138. M. Broxtermann, D. den Engelsen, G.R. Fern, P. Harris, T.G. Ireland, T. Jüstel, J. Silver, Cathodoluminescence and Photoluminescence of $\text{YPO}_4:\text{Pr}^{3+}$, $\text{Y}_2\text{SiO}_5:\text{Pr}^{3+}$, $\text{YBO}_3:\text{Pr}^{3+}$, and $\text{YPO}_4:\text{Bi}^{3+}$, *ECS Journal of Solid State Science and Technology* **6** (2017) R47 (weekly digest), DOI: 10.1149/2.0051704jss
139. T. Jansen, T. Jüstel, M. Kirm, V. Makhov, S. Vielhauer, N. Khaidukov, V. Nagirnyi, E. Töldsepp, H. Mägi, Site Selective, Time and Temperature Dependent Spectroscopy of Eu^{3+} Doped Apatites $(\text{Mg,Ca,Sr})_2\text{Y}_8\text{Si}_6\text{O}_{26}$, *J. Luminescence* **186** (2017) 205, DOI: 10.1016/j.jlumin.2017.02.004
140. M.-F. Volhard, T. Jüstel, On the Luminescence of $(\text{Ba}_{0.5}\text{Sr}_{0.5})_2\text{SiO}_4:\text{Eu}^{3+}$ upon X-ray Exposure, *Proc. of the 5th International Conference on Photonics, Optics and Laser Technology* (2017) 122, DOI: 10.5220/0006269101220125

141. T. Dierkes, T. Jüstel, Novel Red-Emitting Nitridoborates - $\text{SrBa}_8[\text{BN}_2]_6:\text{Ln}^{2+/3+}$ ($\text{Ln} = \text{Pr}^{3+}, \text{Eu}^{2+}$), *J. Luminescence* **187** (2017) 513, DOI: 10.1016/j.jlumin.2017.03.036
142. K. Dolabdjian, C. Schedel, D. Enseling, T. Jüstel, and H.-J. Meyer, Synthesis, luminescence and nonlinear optical properties of homoleptic Tetracyanamidogermanates $\text{ARE}[\text{Ge}(\text{CN}_2)_4]$ ($\text{A} = \text{K}, \text{Cs}$ and $\text{RE} = \text{La}, \text{Ce}, \text{Pr}, \text{Nd}, \text{Sm}, \text{Eu}, \text{Gd}$), *ZAAC* **643** (2017) 488, DOI: 10.1002/zaac.201600353
143. B. Malysa, A. Meijerink, W. Wu, T. Jüstel, On the Influence of Calcium Substitution to the Optical Properties of Cr^{3+} doped SrSc_2O_4 , *J. Luminescence* **190** (2017) 234, DOI: 10.1016/j.jlumin.2017.05.030
144. T. Jansen, T. Jüstel, On the optical properties of $\text{Sr}_3\text{SiAl}_{10}\text{O}_{20}$ and $\text{Sr}_3\text{SiAl}_{10}\text{O}_{20}:\text{Mn}^{4+}$, *J. Physics and Chemistry of Solids* **110 C** (2017) 180, DOI: 10.1016/j.jpccs.2017.06.009
145. T. Dierkes, S. Seidel, C. Benndorf, L. Heletta, M. de Oliveira Jr., M. Holtkamp, U. Karst, T. Block, T. Jüstel, H. Eckert, R. Pöttgen, Mixed Europium Valence in $\text{Eu}_{0.937}\text{Ba}_8[\text{BN}_2]_6$ – Structure and Spectroscopic Behavior, *Solid State Science* **70** (2017) 86, DOI: 10.1016/j.solidstatesciences.2017.06.002
146. R. Gerdes, H. Bettentrup, D. Enseling, M. Haase, T. Jüstel, On the Synthesis, Phase Optimisation and Luminescence of Some Rare Earth Pyrosilicates, *J. Luminescence* **190** (2017) 451, DOI: 10.1016/j.jlumin.2017.06.001
147. N. Khaidukov, V. Nagirnyi, S. Vielhauer, E. Feldbach, H. Mägi, T. Jansen, M. Kirm, E. Töldsepp, T. Jüstel, Luminescence Properties of Silicate Apatite Phosphors $\text{M}_2\text{La}_8\text{Si}_6\text{O}_{26}:\text{Eu}$ ($\text{M} = \text{Mg}, \text{Ca}, \text{Sr}$), *J. Luminescence* **191** (2017) 51, DOI: 10.1016/j.jlumin.2017.01.033
148. A. Kruopyte, R. Giraitis, R. Juskenas, D. Enseling, T. Jüstel, A. Katelnikovas, Luminescence and Luminescence Quenching of Efficient $\text{GdB}_5\text{O}_9:\text{Eu}^{3+}$ Red Phosphors, *J. Luminescence* **192** (2017) 520, DOI: 10.1016/j.jlumin.2017.07.038
149. T. Jansen, F. Baur, T. Jüstel, Red Emitting $\text{K}_2\text{NbF}_7:\text{Mn}^{4+}$ and $\text{K}_2\text{TaF}_7:\text{Mn}^{4+}$ for Warm-White LED Applications, *J. Luminescence* **192** (2017) 644, DOI: 10.1016/j.jlumin.2017.07.061
150. B.J. Adamczyk, T. Jüstel, J. Plewa, M. Sopicka-Lizer, D. Michalik, The Influence of Na_2CO_3 Flux on Photoluminescence Properties of $\text{SrSi}_2\text{O}_2\text{N}_2:\text{Eu}^{2+}$ Phosphor, *Ceramics International* **43** (2017) 12381, DOI: 10.1016/j.ceramint.2017.06.104
151. T. Jansen, F. Baur, D. Böhnisch, T. Jüstel, The Optical Properties of Monoclinic Na_3AlF_6 and $\text{Na}_3\text{AlF}_6:\text{Mn}^{4+}$, *Research Gate* (2017) DOI: 10.26434/chemrxiv.6356564.v1
152. A.-D. Fuhrmann, A. Seyboldt, A. Schank, G. Zitzer, B. Speiser, D. Enseling, T. Jüstel, H.J. Meyer, Luminescence Quenching of Ligand-Substituted Molybdenum

- and Tungsten Halide Clusters by Oxygen and Their Oxidation Electrochemistry, *Eur. J. Inorg. Chem.* **37** (2017) 4259, DOI: 10.1002/ejic.201700763
153. M. Kirm, E. Feldbach, H. Mägi, V. Nagirnyi, E. Töldsepp, S. Vielhauer, T. Jüstel, T. Jansen, N. M. Khaidukov, V.N. Makhov, Silicate Apatite Phosphors for pc-LED Applications, *Proc. Estonian Acad. Sci.* **66** (2017) 383, DOI: 10.3176/proc.2017.4.14
154. D. Rudolph, D. Enseling T. Jüstel, T. Schleid, Crystal Structure and Luminescence Properties of the First Hydride Oxide Chloride with Divalent Europium: $\text{LiEu}_2\text{HOCl}_2$, *Z. Anorg. Allg. Chem.* **643** (2017) 1525, DOI: 10.1002/zaac.201700224
155. A.-D. Fuhrmann, A. Seyboldt, D. Enseling, T. Jüstel, H.-J. Meyer, Preparation and Luminescence of Cluster Photosensitizers $[\text{W}_6\text{Br}_8\text{L}_6]^{2-}$ with $\text{L} = \text{CF}_3\text{COO}$ and $\text{C}_7\text{H}_7\text{SO}_3$, *Z. Anorg. Allg. Chem.* **643** (2017) 1451, DOI: doi.org/10.1002/zaac.201700216
156. A. Seyboldt, D. Enseling, T. Jüstel, M. Ivanovic, H. Peisert, T. Chassé, H.-J. Meyer, Ligand Influence on Photophysical Properties and the Electronic Structure of Tungsten Iodide Clusters, *Eur. J. Inorg. Chem.* **45** (2017) 5387, DOI: 10.1002/ejic.201700910
157. T. Jansen, J. Gorobez, M. Kirm, M.G. Brik, S. Vielhauer, M. Oja, N.M. Khaidukov, V.N. Makhov, T. Jüstel, Narrow Band Deep Red Photoluminescence of $\text{Y}_2\text{Mg}_3\text{Ge}_3\text{O}_{12}:\text{Mn}^{4+},\text{Li}^+$ Inverse Garnet for High Power Phosphor Converted LEDs, *ECS J. Solid State Science and Technology Focus Issue* **7** (2018) R3086 (weekly digest), DOI: 10.1149/2.0121801jss
158. S. Korte, D. Enseling, T. Jüstel, Measurement Approach for Monitoring Time-Dependant Intensity Variations of AC-LEDs, *ECS J. Solid State Science and Technology* **7** (2018) R3148 (weekly digest), DOI: 10.1149/2.0171801jss
159. M. Broxtermann, S. Korte, T. Jüstel, Mercury Free UV Lamp for Disinfection and Purification of Drinking Water, Proicess, and Waster Water – An Approach to Assessing its Innovation Potential and Possible Market Entry Strategies, *J. Business Chem.* **14** (2018) 106, DOI: 10.17879/20249613280
160. M.-F. Volhard, T. Jüstel, The Effect of X-ray Exposure on $\text{Ba}_2\text{SiO}_4:\text{Eu}^{3+}$, *Opt. Communications* **410** (2018) 617, DOI: 10.1016/j.optcom.2017.10.050
161. F. Baur, T. Jüstel, Uranyl Sensitised Eu^{3+} Activated $\text{Ln}(\text{UO}_2)_3(\text{PO}_4)_2\text{O}(\text{OH})\cdot 6\text{H}_2\text{O}$ Phosphor ($\text{Ln} = \text{Y}, \text{Eu}, \text{La}$) for Warm-White Light Emitting Diodes, *J. Luminescence* **196** (2018) 431, DOI: 10.1016/j.jlumin.2017.12.073
162. D. Böhnisch, F. Baur, T. Jüstel, Photoluminescence and Energy Transfer Behavior of Red Line Emitting $\text{Li}_3\text{Ba}_2\text{Tb}_3(\text{MoO}_4)_8:\text{Eu}^{3+}$, *Dalton Trans.* **47** (2018) 1520, DOI: 10.1039/C7DT04151A

163. S. Korte, E. Lindfeld, T. Jüstel, Flicker Reduction of AC LEDs by Mn²⁺ Doped Apatite Phosphor, *ECS J. Solid State Science and Technology* **7** (2018) R21, DOI: 10.1149/2.0101809jss
164. J. Robert, T. Jüstel, R. Ulber, V. Jordan, Katalysatordeaktivierung beim photokatalytischen Abbau von Methylenblau an TiO₂, *Chemie Ingenieur Technik* **90** (2018) 643, DOI: 10.1002/cite.201700144
165. T. Jansen, T. Jüstel, M. Kirm, S. Vielhauer, N.M. Khaidukov, V.N. Makhov, Composition Dependent Spectral Shift of Mn⁴⁺ Luminescence in Silicate Garnet Hosts CaY₂M₂Al₂SiO₁₂ (M = Al, Ga, Sc), *J. Luminescence* **198** (2018) 314, DOI: 10.1016/j.jlumin.2018.02.054
166. R. Gerdes, D. Enseling, M. Haase, T. Jüstel, UV-C Luminescence of a Modified Zircon Silicate Framework upon Cathode Ray and VUV Excitation, *J. Luminescence* **198** (2018) 410, DOI: 10.1016/j.jlumin.2018.02.071
167. M. Broxtermann, T. Dierkes, L.M. Funke, M. Salvermoser, M. Laube, S. Natemeyer, N. Braun, M.R. Hansen, T. Jüstel, An UV-C/B Emitting Xe Excimer Discharge Lamp Comprising BaZrSi₃O₉ – A Lamp Performance and Phosphor Degradation Analysis, *J. Luminescence* **200** (2018) 1, DOI: 10.1016/j.jlumin.2018.03.043
168. S. Korte, T. Jüstel, On the Photoluminescence of InBO_{30LuA} and TbBO₃ Doped by Eu³⁺ and Ce³⁺, *Mater. Res. Bull.* **104** (2018) 27, DOI: 10.1016/j.materresbull.2018.03.056
169. M. Squillante, T. Jüstel, R.R. Anderson, C. Brecher, D. Chartier, J.F. Christian, N. Ciccehti, S. Espinoza, D. R. McAdams, M. Müller, B. Tornifoglio, Y. Wang, M. Purschke, Fabrication and Characterization of UV Emitting Nanoparticles as Novel Radiation Sensitizers Targeting Hypoxic Tumor Cells, *Opt. Materials* **80** (2018) 197, DOI: 10.1016/j.optmat.2018.04.033
170. M. Broxtermann, A. Meijerink, T. Ju, M.R. Hansen, N. Braun, L.M. Funke, H. Eckert, J.-N. Keil, T. Jüstel, A Detailed Aging Analysis of MPO₄:X (M = Y³⁺, La³⁺, Lu³⁺; X = Bi³⁺, Pr³⁺, Gd³⁺) due to the Xe Excimer Discharge, *J. Luminescence* **202** (2018) 450, DOI: 10.1016/j.jlumin.2018.05.056
171. B. Malysa, A. Meijerink, T. Jüstel, Temperature Dependent Cr³⁺ Photoluminescence in Garnets of the Type X₃Sc₂Ga₃O₁₂ (X = Lu, Y, Gd, La), *J. Luminescence* **202** (2018) 523, DOI: 10.1016/j.jlumin.2018.05.076
172. T. Jansen, J. Gorobez, T. Jüstel, Optical Properties of Red Emitting HK₃SnF₈:Mn⁴⁺ as a Color Converter for Next Generation Warm White LEDs, *ECS J. Solid State Science and Technology* **7** (2018) R111, DOI: 10.1149/2.0311806jss
173. D. Böhnisch, T. Jansen, R. Pöttgen, T. Jüstel, Temperature Dependent Optical Properties of Red Emitting Na₃GaF₆:Mn⁴⁺ as a Color Converter for Warm White LEDs, *Z. Kristallographie* **233** (2018) 489, DOI: 10.1515/zkri-2017-2118

174. R. Pöttgen, H. Eckert, D. Johrendt, J. Stahl, D. Böhnisch, T. Jüstel, T. Jansen, C. Benndorf, L. Heletta, S. Seidel, L. Funke, R.-D. Hoffmann, Na₃GaF₆ - A Crystal Chemical and Solid State NMR Spectroscopic Study, *Z. Kristallographie* **233** (2018) 479, DOI: 10.1515/zkri-2017-2138
175. F. Baur, T. Jüstel, Warm-White LED with Ultra High Luminous Efficacy due to Sensitisation of Eu³⁺ Photoluminescence by the Uranyl Moiety in K₄(UO₂)Eu₂(Ge₂O₇)₂, *J. Mater. Chem. C* **6** (2018) 6966, DOI: 10.1039/C8TC01970C
176. S. Fischer, F. Baur, T. Jüstel, Suppression of Metal-to-Metal Charge Transfer Quenching in Ce³⁺ and Eu³⁺ Comprising Garnets by Core-Shell Structure, *J. Luminescence* **203** (2018) 467, DOI: 10.1016/j.jlumin.2018.07.001
177. S. Fischer, F. Baur, T. Jüstel, Influence of Ga³⁺ Substitution on the Spectroscopic Properties of Ce³⁺ Doped Tb₃(Al,Ga)₅O₁₂ Garnet Phosphors, *ECS J. Solid State Science and Technology* **7** (2018) R142, DOI: 10.1149/2.0131809jss
178. T. Jansen, T. Jüstel, M. Kirm, S. Vielhauer, N.M. Khaidukov, V.N. Makhov, Thermal quenching of Mn⁴⁺ Luminescence in Sn⁴⁺-Containing Garnet Hosts, *Opt. Materials* **84** (2018) 600, DOI: 10.1016/j.optmat.2018.07.061
179. D. Böhnisch, J. Rosenboom, T. Jansen, and T. Jüstel, Gd₃Li₃Te₂O₁₂:U⁶⁺,Eu³⁺: A Tunable Red Emitting Garnet Showing Efficient U⁶⁺ to Eu³⁺ Energy Transfer at Room Temperature, *Inorganics* **6** (2018) 84, Special Issue *Mixed Metal Oxides*, DOI: 10.3390/inorganics6030084
180. B. Malysa, A. Meijerink, T. Jüstel, Temperature Dependent Photoluminescence of Cr³⁺ doped Sr₈MgLa(PO₄)₇, *Opt. Materials* **85** (2018) 341, DOI: 10.1016/j.optmat.2018.09.001
181. C. Funk, J. Köhler, K. Rohleder, J. Nuss, A. Bussmann-Holder, H. Bamberger, J. van Slageren, D. Ensling, T. Jüstel, T. Schleid, Old and New Insights into Structure and Properties of Eu₂[SiO₄], *Cryst. Growth & Design* **18** (2018) 6316, DOI: 10.1021/acs.cgd.8b01265
182. A. García-Fuente, F. Baur, F. Cimpoesu, A. Vega, T. Jüstel, W. Urland, Properties Design: Prediction and Experimental Validation of the Luminescence Properties of a New Eu(II)-based Phosphor, *Chemistry A European Journal* **24** (2018) 16276, DOI: 10.1002/chem.201804479
183. S. Espinoza, M.F. Volhard, H. Kätker, H. Jenneboer, A. Uckelmann, M. Haase, M. Müller, M. Purschke, T. Jüstel, Deep Ultraviolet Emitting Scintillators for Biomedical Applications - The Hard Way of Downsizing LuPO₄:Pr³⁺, Particles and Particles Synthesis (2018) 1800282, DOI: 10.1002/ppsc.201800282
184. S. Espinoza, T. Jüstel, M. Haase, Single-Line Emission of LaPO₄:Gd³⁺ Nanocrystals Excitable by X-rays, VUV, and UV-C Radiation, *Nanoscale* **10** (2018) 22533, DOI: 10.1039/C8NR06867D

185. M. Laube, D. Engelsen, T. Jansen, T. Jüstel, G. Fern, P. Harris, T. Ireland, J. Silver, On the Photo- and Cathodoluminescence of $\text{LaB}_3\text{O}_6:\text{Gd,Bi}$, $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Pr}$, $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Gd}$, $\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Pr}$, and $\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Gd}$, *ECS J. SSST* **7** (2018) R206, DOI: 10.1149/2.0071812jss
186. S. Fischer, F. Baur, T. Jüstel, Suppression of Metal-to-Metal Charge Transfer Quenching in Ce^{3+} and Eu^{3+} Comprising Garnets by Core-Shell Structure, *Dalton Transactions* **48** (2019) 315, DOI: 10.1016/j.jlumin.2018.07.001Get
187. T. Jansen, L.M. Funke, J. Gorobez, D. Böhnisch, R.-D. Hoffmann, L. Heletta, R. Pöttgen, M. R. Hansen, T. Jüstel, and H. Eckert, Red Emitting $\text{K}_3\text{HF}_2\text{WO}_2\text{F}_4:\text{Mn}^{4+}$ for Application in Warm-White pcLEDs – Optical Properties and Solid State NMR Spectroscopy, *Dalton Trans.* **48** (2019) 5361, DOI: 10.1039/C9DT00091G
188. M. Kirm, M. Oja, J. Kozlova, H. Mändar, S. Vielhauer, T. Jansen, T. Jüstel, N.M. Khaidukov, and V.N. Makhov, Spectral Properties and Thermal Quenching of Mn^{4+} Luminescence in Silicate Garnet Hosts $\text{CaY}_2\text{MgMAISi}_2\text{O}_{12}$ (M = Al, Ga, Sc), *Phys. of the Solid State* **61** (2019) 853, DOI: 10.1134/S1063783419050147
189. D. Böhnisch, J. Rosenboom, T. Jüstel, and F. Baur, On the Blue Emitting Phosphor $\text{Na}_3\text{RbMg}_7(\text{PO}_4)_6:\text{Eu}^{2+}$ Showing Ultra High Thermal Stability, *J. Mater. Chem C* **7** (2019) 6012, DOI: 10.1039/C9TC00482C
190. F. Baur, T. Jüstel, Eu^{3+} Activated Molybdate – Structure Property Relations, *Opt. Mater. X* **1** (2019) 100015, DOI: 10.1016/j.omx.2019.100015
191. P. Pues, S. Schwung, D. Rytz, T. Jüstel, Temperature and Time Dependent Photoluminescence of Single Crystalline $\text{KEu}(\text{WO}_4)_2$, *J. Luminescence* **215** (2019) 116653, DOI: 10.1016/j.jlumin.2019.116653
192. S. Espinoza, M. Müller, H. Jenneboer, L. Peulen, T. Bradley, M. Purschke, R. Rahmanzadeh, M. Haase, T. Jüstel, Characterization of Micro- and Nanoscale $\text{LuPO}_4:\text{Pr}^{3+},\text{Nd}^{3+}$ with Strong UV-C Emission to Reduce X-Ray Doses in Radiation Therapy, *Particle and Particle Systems Characterisation* (2019) 1900280, DOI: 10.1002/ppsc.201900280
193. M. Laube, T. Jüstel, On the Temperature and Time Dependent Photoluminescence of $\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Gd}$, *J. Luminescence* **216** (2019) 116729, DOI: 10.1016/j.jlumin.2019.116729
194. R. Schmidt, M. Ströbele, C. Romao, D. Enseling, T. Jüstel, H.-J. Meyer, Synthesis, Structure and Properties of a Calcium Oxonitridosilicate Phosphor Showing Green or Red Luminescence upon Doping with Eu^{2+} or Ce^{3+} , *Dalton Trans.* **48** (2019) 14069, DOI: 10.1039/C9DT02564B
195. B. Fuchs, G. Heimann, F. Schröder, T. Jüstel, H. Huppertz, High-Pressure Synthesis, Crystal Structure, and Photoluminescence Properties of $\beta\text{-Y}_2\text{B}_4\text{O}_9:\text{Eu}^{3+}$, *Inorganics* **7** (2019) 136, DOI: 10.3390/inorganics7110136

196. T. Hummel, M. Ströbele, A.-D. Fuhrmann, D. Enseling, T. Jüstel, and H.-J. Meyer, Solid-state phosphorescence of $A_2[W_6I_{14}]$ with $A = PPN, PPh_4$, Eur. J. , Eur. J. Inorg. Chem. (2019) 4014, DOI: 10.1667/RR15491.1
197. S. Gutzov, D. Shandurkov, N. Danchova, D. Enseling, T. Jüstel, Preparation and optical properties of functionalized hydrophobic aerogel granules, Proc. of the Int. SPIE Conference on Quantum, Nonlinear, and Nanophotonics, Sofia, Bulgaria, **11332** (2019) 113320C-1, DOI: 10.1117/12.2552727
198. S. Korte, T. Jüstel, J. Michels, T. Schupp, Feasibility Study of Gallium Recycling by Phytomining with *Lemna minor*, Research Gate (2019), DOI: 10.13140/RG.2.2.20601.01123
199. M. Müller, S. Espinoza, T. Jüstel, K.D. Held, R. Anderson, M. Purschke, UVC emitting $LuPO_4:Pr^{3+}$ Nanoparticles Decrease Radiation Resistance of Hypoxic Cancer Cells, Radiation Research **193** (2020) 82, DOI: 10.1667/RR15491.1
200. S. Fischer, T. Jüstel, Effective Sensitization of Eu^{3+} with Ce^{3+} by Suppression of Metal-to-Metal Charge Transfer in Composite Structured TbF_3 Fluoride Particles, J. Luminescence **223** (2020) 117232, DOI: 10.1016/j.jlumin.2020.117232
201. M. Volhard, J.J. Christ, L.M. Blank, T. Jüstel, Photocatalytic Plastic Degradation Induced by Seawater, Sustainable Chemistry and Pharmacy **16C** (2020), 100251, DOI: 10.1016/j.scp.2020.100251
202. F. Baur, D. Böhnisch, T. Jüstel, Luminescence of Mn^{4+} in a Hexafluorogermanate with the Complex Organic Cation Guanidinium $[C(NH_2)_3]_2GeF_6:Mn^{4+}$, ECS J. SSST **9** (2020) 046003, DOI: 10.1149/2162-8777/ab8788
203. J.-N. Keil, E. Lindfeld, T. Jüstel, Synthesis and Characterization of $Sr_3(PO_4)_2:Pr^{3+},Si^{4+}$, J. Luminescence **225** (2020) 117376, DOI: 10.1016/j.jlumin.2020.117376
204. T. Hummel, D. Dutczak, L. S. Adamenko, A. Y. Alekseev, M. A. Shestopalov, Y. V. Mironov, D. Enseling, T. Jüstel, H.-J. Meyer, Photodynamic Properties of Tungsten Iodide Clusters, incorporated into silicone: $A_2[M_6I_8L_6]@silicone$, RSC Advances **10** (2020) 22257, DOI: 10.1039/D0RA04280C
205. T. Hummel, W. Leis, A. Eckhardt, M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, Energy Transfer in Supramolecular $[Crypt-RE]-[W_6I_{14}]$ Solids, Dalton Transactions **49** (2020) 9795, DOI: 10.1039/D0DT01705A
206. P. Pues, F. Baur, S. Schwung, D. Rytz, R. Pöttgen, R. Paulsen, O. Janka, B. Rendenbach, D. Johrendt, T. Jüstel, Temperature and Time-Dependent Luminescence of Single Crystals of KTb_3F_{10} , J. Luminescence **227** (2020) 117523, DOI: 10.1016/j.jlumin.2020.117523
207. M. Laube, B. Herden, E. Seelbach, N. Braun, T. Berger, T. Jüstel, Novel UV-A and -B Emitting Device for Medical Treatment, Photochemistry, and Tanning

- Purposes, *ECS J. of Solid State Science and Technology* **9** (2020) 065012, DOI: 10.1149/2162-8777/aba4f0
208. J. Robert, T. Jüstel, R. Ulber, V. Jordan, Modelling and Experimental Investigation of Luminous Coupling in LED Driven Optical Fiber Reactors, *J. Photocatalysis* **1** (2020) 50, DOI: 10.2174/2665976X01999200617112504
209. J. Grigorjevaite, E. Ezerskyte, J. Paterek, S. Saitzek, A. Zabaliute-Karaliune, P. Vitta, D. Enseling, T. Jüstel, A. Katelnikovas, Luminescence and Luminescence Quenching of $\text{K}_2\text{Bi}(\text{PO}_4)(\text{MoO}_4):\text{Sm}^{3+}$ Phosphors for Horticultural and General Lighting Applications, *Materials Advances* **1** (2020) 1427, DOI: 10.1039/D0MA00369G
210. A. Siai, L. Hämmerle, M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, Structure, Polymorphism and Luminescence of Cyanate Iodides $\text{Ml}(\text{OCN})$ ($\text{M} = \text{Ba}, \text{Eu}, \text{Sr}$), *Dalton Transactions* **49** (2020) 14133, DOI: 10.1039/D0DT02126A
211. M. Müller, R. Ramanzadeh, T. Tran, J. Kappelhoff, A.E. Akam, P. Caravan, T. Jüstel, K.D. Held, R. Anderson, M. Purschke, Particle size of X-ray pumped UVC emitting nanoparticles defines intracellular localization and biological activity against cancer cells, *Particles and Particle Systems Characterisation* (2020) 2000201, DOI: 10.1002/ppsc.202000201
212. D. Dutczak, A. Siai, M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, Solid-State Preparation and Luminescence Investigation of Rare Earth Iodide Carbodiimide Nitrides $\text{RE}_2\text{I}(\text{CN}_2)\text{N}$ ($\text{RE} = \text{La}, \text{Gd}$) and $\text{LaI}(\text{CN}_2)$, *Eur. J. Inorg. Chem.* (2020), DOI: 10.1002/ejic.202000683
213. T. Hummel, M. E. Martinez Monje, M. Ströbele, A.-D. Fuhrmann, D. Enseling, T. Jüstel, and H.-J. Meyer, A ternary tungsten iodine with remarkable photophysical properties, *Eur. J. Inorg. Chem.* (2020), DOI: 10.1002/ejic.
214. F. Baur, T. Jüstel, Optical Characterisation, *Rare Earth Chemistry*, Edited by R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2020), ISBN: 978-3-11-065360-1
215. T. Jüstel, F. Baur, Optical Materials – Microcrystalline Powders, *Rare Earth Chemistry*, Edited by R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2020), ISBN: 978-3-11-065360-1
216. M. Wentker, T. Jüstel, J. Leker, Economic Aspects, *Rare Earth Chemistry*, Edited by R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2020), ISBN: 978-3-11-065360-1
217. J.-N. Keil, C. Paulsen, R. Pöttgen, T. Jüstel, On the Structure and Temperature Dependent Spectroscopy of the UV-C Emitting Phosphor $\text{Sr}_3(\text{BO}_3)_2:\text{Pr}^{3+}, \text{Na}^+$, *J. Luminescence* **230** (2021) 117765, DOI: 10.1016/j.jlumin.2020.117765
218. T. Zahariev, D. Shandurkov, S. Gutzov, N. Trendafilova, D. Enseling, T. Jüstel, I. Georgieva, Phenanthroline Chromophore as Efficient Antenna for Tb^{3+} Green

- Luminescence: A Theoretical Study, *Dyes and Pigments* **185** (2021) 108890, DOI: 10.1016/j.dyepig.2020.108890
219. V. Anselm, T. Jüstel, On the Photoluminescence and Energy Transfer of SrGa₁₂O₁₉:Cr³⁺,Nd³⁺ Microscale NIR Phosphors, *J. Materials Research and Technology* **11** (2021) 785, DOI: 10.1016/j.jmrt.2021.01.047
220. G. Brehm, J. Niermann, D. Enseling, T. Jüstel, J.C. Axmacher, K. Fiedler, Moths are strongly attracted to ultraviolet and blue radiation, *Insect Conservation and Diversity* **14** (2021) 188, DOI: org/10.1111/icad.12476
221. P. Pues, M. Laube, S. Fischer, F. Schröder, S. Schwung, D. Rytz, T. Fiehler, U. Wittrock, and T. Jüstel, Luminescence and Up-Conversion of Single Crystalline Lu₃Al₅O₁₂:Pr³⁺, *J. Luminescence* **234** (2021) 117987, DOI: 10.1016/j.jlumin.2021.117987
222. A. Bents, T. Jüstel, F. Baur, A Novel Synthesis Pathway Towards Rare Earth Fluorides by Using Liquid and Solid State Hexafluorophosphate Salts, *J. Electrochemical Society* **168** (2021) 036502, DOI: 10.1149/1945-7111/abe8bc
223. F. Schröder, T. Jüstel, X-ray and VUV Excitation Studies on Pr³⁺ Activated Li₂CaSiO₄, *J. Luminescence* **235** (2021) 118046, DOI: 10.1016/j.jlumin.2021.118046
224. F. Baur, T. Jansen, T. Jüstel, First Report of Energy Transfer from Uranyl to Mn⁴⁺ in K₃(UO₂)F₅:Mn⁴⁺, *J. Luminescence* **236** (2021) 118085, DOI: 10.1016/j.jlumin.2021.118085
225. V. Anselm, T. Jüstel, Optimization of the Synthesis and Energy Transfer of Ca₂MgWO₆:Cr³⁺,Nd³⁺ *Inorganics* **9** (2021) 23, DOI: 10.3390/inorganics9040023
226. F. Pachel, M. Ströbele, D. Enseling, T. Jüstel, H.J.-Meyer, Crystal structure, Magnetic and Photoluminescence Properties of GdW₆Cl₁₅, TbW₆Cl₁₅, and EuW₆Cl₁₄, *Z. Anorg. Allg. Chem.* **647** (2021) 1, DOI: 10.1002/zaac.202100046
227. M. Laube, T. Jüstel, On the Time and Temperature Dependent Photoluminescence of Pr³⁺ and Gd³⁺ Doped Lu₃Al₅O₁₂, *J. Luminescence* **236** (2021) 118112, DOI: 10.1016/j.jlumin.2021.118112
228. P. Loiko, D. Rytz, S. Schwung, P. Pues, T. Jüstel, J.-L. Doualan, P. Camy, Watt-level Europium laser at 703 nm, *Opt. Letters* **46** (2021) 2702, DOI: 10.1364/OL.428706
229. F. Baur, D. Enseling, T. Jüstel, Lumineszenzspektroskopie für die Qualifizierung von LED-Leuchtstoffen, *GIT Laborfachzeitschrift* (2021), DOI: 10.1002/was.0004000116
230. A. Siai, M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, Solid-state synthesis of (Ph₄P)Ml₃ (M = Eu²⁺, Sr²⁺, Sn²⁺) and investigation of photoluminescence

- properties of green emitting phosphor, *Eur. J. Inorg. Chem.* (2021) 1846, DOI: 10.1002/ejic.202100059
231. C. Buyer, D. Enseling, T. Jüstel, T. Hydrothermal synthesis, crystal structure and spectroscopic properties of pure and Eu^{3+} -doped $\text{NaY}[\text{SO}_4]_2 \cdot \text{H}_2\text{O}$ and its anhydrate $\text{NaY}[\text{SO}_4]_2$, *Crystals* **11** (2021) 575, DOI: 10.3390/cryst11060575
232. G. Inkrataite, G. Laurinavicius, D. Enseling, A. Zarkov, T. Jüstel, R. Skaudzius, Characterization of GAGG Doped with Extremely Low Levels of Chromium and Exhibiting Exceptional Intensity of Emission in NIR Region, *Crystals* **11** (2021) 673, DOI: 10.3390/cryst11060673
233. J.-N. Keil, C. Paulsen, F. Rosner, R. Pöttgen, T. Jüstel, On the Crystal Structure and Optical Spectroscopy of Rare Earth Comprising Quaternary Tungstates $\text{Li}_3\text{Ba}_2\text{RE}_3(\text{WO}_4)_8$ (RE = La-Nd, Sm-Ho), *Dalton Transactions* (2021), DOI: 10.1039/D1DT00795E
234. F. Baur, T. Jüstel, Anorganische leuchtstoffkonvertierte Halbleiterdioden: Materialien, Funktionsprinzip und Anwendungen, *Chemie in unserer Zeit* (2021), DOI: 10.1002/ciuz.202000055
235. P. Pues, S. Schwung, D. Rytz, T. Jüstel, On the use of luminescent single crystals as optical reference materials, *J. Luminescence* **235** (2021) 118289, DOI: 10.1016/j.jlumin.2021.118289
236. J.-N. Keil, H. Jenneboer, T. Jüstel, Temperature Dependent Luminescence of Pr^{3+} Doped NaCaPO_4 , *J. Luminescence* **238** (2021) 118307, DOI: 10.1016/j.jlumin.2021.118307
237. J. Kappelhoff, M. Haase, T. Jüstel, On the Energy Transfer from Pr^{3+} to Gd^{3+} in Nanosized LuPO_4 Particles, *J. Luminescence* **240** (2021) 118418, DOI: 10.1016/j.jlumin.2021.118418
238. B. Fuchs, F. Schröder, G. Heymann, R. Siegel, J. Senker, T. Jüstel, H. Huppertz, Bringing light into the darkness: Crystal structure re-determination of $\pi\text{-YBO}_3\text{:Eu}^{3+}$, *ZAAC* **647** (2021) 1, DOI: 10.1002/zaac.202100229
239. M. Khuramm, T. Jüstel, F. Baur, Mn^{4+} Activated Deep Red Emitting Perovskite Type Phosphors for Horticulture Lighting, *Advanced Materials Research* **1167** (2021) 57, ISSN: 1662-8985
240. F. Schröder, T. Jüstel, Effect of Ga^{3+} Doping on the Luminescence and Up-Conversion of Pr^{3+} Activated $(\text{Lu},\text{Y})_3\text{Al}_5\text{O}_{12}$, *Optical Materials X* **13** (2022) 100117, DOI: 10.1016/j.omx.2021.100117
241. V. Anselm, T. Pier T. Jüstel, On the Investigation of the Energy Transfer in $\text{Ca}_9\text{Lu}(\text{PO}_4)_7\text{:Eu}^{2+},\text{Mn}^{2+},\text{Nd}^{3+}$, *J. Luminescence* **243** (2022) 118666, DOI: 10.1016/j.jlumin.2021.118666

242. T. Tran, J. Kappelhoff, T. Jüstel, R. Anderson, M. Purschke, UV emitting nanoparticles enhance the effect of ionizing radiation in 3D lung cancer spheroids, *Int. Journal of Radiation Biology*, (2022) 2027541, DOI: 10.1080/09553002.2022.2027541
243. J.-N. Keil, F. Rosner, T. Jüstel, On the Tb³⁺ - Eu³⁺ Energy Transfer in K Tb_{1-x}(WO₄)₂:Eu³⁺_x, *J. Luminescence* **244** (2022) 118754 DOI: 10.1016/j.jlumin.2022.118754
244. K.U. Bareiß, M. Kleeberg, D. Enseling, T. Jüstel, T. Schleid, Tl₂[B₁₀H₁₀] und Tl₂[B₁₂H₁₂]: Kristallstrukturen, Ramanspektren und Tl⁺-Lone-Pair-Lumineszenz im Vergleich, *Z. Naturforschung* **77(2-3)b** (2022) 179, DOI: 10.1515/znb-2022-0007
245. M. Laube, T. Jüstel, On the Time and Temperature Dependent Photoluminescence of Nd³⁺ and Gd³⁺ Doped Lu₃Al₅O₁₂, *J. Luminescence* **245** (2022) 118830, DOI: 10.1016/j.jlumin.2022.118830
246. J. Kappelhoff, J.-N. Keil, M. Kirm, V. Makhov, K. Chernenkov, S. Möller, T. Jüstel, Spectroscopic Studies on Pr³⁺ Doped LuPO₄ and YPO₄ upon VUV and Synchrotron Radiation Excitation, *Chem. Phys.* **562** (2022) 111646, DOI: 10.1016/j.chemphys.2022.111646
247. T. Jüstel, K. Lider, Eloxal and Particle Coatings in Applied Inorganic Chemistry, Edited by R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2022), DOI: 10.1515/9783110733143-005
248. T. Jüstel, F. Baur, Solid State Lighting Materials in Applied Inorganic Chemistry, Edited by R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2022), DOI: 10.1515/9783110798890-020
249. F. Baur, T. Jüstel, Up-Converters in Applied Inorganic Chemistry in Edited by R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2022), DOI: 10.1515/9783110798890-021
250. F. Baur, T. Jüstel, Scintillators in Applied Inorganic Chemistry, Edited by R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2022), DOI: 10.1515/9783110798890-027
251. W. Hermes, R. Lovrincic, T. Jüstel, R. Pöttgen, C.A. Strassert, F. Busch, Inorganic Detektor Materials in Applied Inorganic Chemistry, Edited by R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2022), DOI: 10.1515/9783110733471-005
252. J. Haberkamp, T. Jüstel, R. Pöttgen, Water, Mineral Acids and Bases in Applied Inorganic Chemistry, Edited by R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2022), DOI: 10.1515/9783110733471-020
253. M. Bertau, T. Jüstel, R. Pöttgen, C.A. Strassert, F. Busch, Chemical Products: Gradients, Energy Balances, Entropy in Applied Inorganic Chemistry, Edited by

- R. Pöttgen, T. Jüstel and C.A. Strassert, De Gruyter (2022), DOI: 10.1515/9783110733471-005
254. F. Schröder, S. Fischer, T. Jüstel, On the Concentration Dependence of the Up-Conversion Process of Praseodymium Doped $\text{Li}_2\text{CaSiO}_4$, *Australian J. Chem.* **75** (2022) 760, DOI: 10.1071/CH21311
255. K.U. Bareiß, S. Bette, D. Enseling, T. Jüstel, T. Schleid, Extraordinary Intense Blue Tl^+ Lone-Pair Photoluminescence from the Thallium(I) Chloride Hydroborate $\text{Tl}_3\text{Cl}[\text{B}_{12}\text{H}_{12}]$, *Dalton Transactions* **51** (2022) 13331, DOI: 10.1039/d2dt01867e
256. J.-N. Keil, C. Paulsen, F. Rosner, R. Pöttgen, T. Jüstel, Crystallographic and Photoluminescence Studies on the Solid Solution $\text{Li}_3\text{Ba}_2\text{La}_{3-x}\text{Pr}_x(\text{WO}_4)_8$ ($x = 0-3$), *J. Luminescence* **252** (2022) 119415, DOI: 10.1016/j.jlumin.2022.119415
257. A. Siai, C.-D. Brand, M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, Carbodiimide bridged network structure of $[(\text{RE}_6\text{O})(\text{NCN})_6]$ clusters in the structure of $\text{RE}_8\text{O}(\text{CN}_2)_{10}\text{Br}_2$, RE = La, Ce, Pr, Nd, *J. Cluster Science* **34** (2023) 1001, DOI: 10.1007/s10876-022-02286-7
258. F. Baur, T. Jüstel, UV Emitting Phosphors: From Fundamentals to Applications in Luminescent Materials: Fundamentals and Applications edited by M.G. Brik and A.M. Srivastava, De Gruyter (2023), DOI: 10.1515/9783110607871-009
259. K. U. Bareiß, D. Enseling, T. Jüstel, T. Schleid, Crystal Structure, Raman Spectrum and Tl^+ Lone-Pair Luminescence of Thallium(I) Dodecahydro-Monocarbonyl-Dodecaborate $\text{Tl}[\text{CB}_{11}\text{H}_{12}]$, *Crystals* **12** (2023) 1840, DOI: 10.3390/cryst12121840
260. F. Pachel, M. Ströbele, C.P. Ramao, D. Enseling, T. Jüstel, H.-J. Meyer, The Remarkably Robust, Photoactive Tungsten Iodide Cluster $[\text{W}_6\text{I}_{12}(\text{CH}_3\text{CN})_2]$, *Eur. J. Inorg. Chemistry* (2023) DOI: 10.1002/ejic.202300096
261. F. Schröder, P. Poes, D. Enseling, T. Jüstel, On the Quantum Yield Determination of UV Emitting Up-Converters, *Luminescence: The Journal of Biological and Chemical Luminescence* (2023) 1, DOI: 10.1002/bio.4496
262. G. Merkininkaitė, A. Zabiliute-Karaliune, T. Jüstel, V. Klimkevicius, S. Sakirzanovas, and A. Katelnikovas, Investigation of $\text{Ce}^{3+} \rightarrow \text{Cr}^{3+}$ Energy Transfer in $\text{Y}_3\text{Al}_3\text{Mg}_2\text{SiO}_{12}$ Garnet Host and Application in Horticultural Lighting, *Ceramics International* **49** (2023) 16796, DOI: 10.1016/j.ceramint.2023.02.040
263. F. Pachel, P. Frech, M. Ströbele, D. Enseling, C.P. Ramao, T. Jüstel, M. Scheele, H.-J. Meyer, Preparation and Luminescence of the Homoleptic Cluster Cation $[(\text{W}_6\text{I}_8)(\text{CH}_3\text{CN})_6]^{4+}$, *Dalton Trans.* **52** (2023), DOI: 10.1039/d2dt04063h
264. J.-N. Keil, H. Kätker, R.T. Wegh, M.P.J. Peeters, T. Jüstel, Novel Bandpass Filter for Far UV-C Emitting Radiation Sources, *Optical materials* **140** (2023) 113866, DOI: 10.1016/j.optmat.2023.113866

265. T. Pier, T. Jüstel, On the Photoluminescence of the Solid Solution $\text{LiBaLa}_{1-x}\text{Pr}_x\text{WO}_6$ ($x = 0.0 - 1.0$), *J. Luminescence* **262** (2023) 119958, DOI: 10.1016/j.jlumin.2023.119958
266. C. Wetter, T. Jüstel, E. Brüggling, S. Möller, M. Scheffler, T. Pier, Bündelung von Wissen und Kompetenzen: Das Wasserstoffcluster der FH Münster, *Deutsches Ingenieurblatt* **05** (2023) 53
267. L. Rössmann, F. Schröder, T. Jüstel, Effect of Gd^{3+} Doping on the Luminescence and Up-Conversion of Pr^{3+} Activated $\text{Ca}_2(\text{Lu}_{0.99-x}\text{Gd}_x\text{Pr}_{0.01})\text{Hf}_2\text{Al}_3\text{O}_{12}$, *J. Luminescence* **263** (2023) 120033, DOI: 10.1016/j.jlumin.2023.120033
268. C.-D. Brand, M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, $\text{Y}_4\text{O}_2(\text{CN}_2)_3\text{Cl}_2$, its relation to the metal-rich Y_2Cl_3 , and the photoluminescence of $\text{Y}_4\text{O}_2(\text{CN}_2)_3\text{Cl}_2:\text{Ce}$, *J. Cluster Science* **35** (2023) 1, DOI: 10.21203/rs.3.rs-2894896/v1
269. Z. Yang, J.J. Joos, J. Hu, D. vd Heggen, T. Pier, M. Delaey, H. Vrielinck, T. Jüstel, P.F. Smet, D. Poelman, Wavelength-specific Integrating Light Dosimeter by Design, *Advanced Optical Materials* **11** (2023) 2300733, DOI: 10.1002/adom.202300733
270. G. Inkrataite, J.-N. Keil, A. Zarkov, T. Jüstel, R. Skaudzius, The Effect of Boron and Scandium Doping on the Luminescence of $\text{LuAG}:\text{Ce}$ and $\text{GdAG}:\text{Ce}$ for Application as Scintillators *J. All. Comp.* **966** (2023) 171634, DOI: 10.1016/j.jallcom.2023.171634
271. T. Pier, J. Hopster, T. Jüstel, On the Time and Temperature Resolved Photoluminescence of Garnets According to $\text{Ca}_2\text{Ln}_{1-x}\text{Ce}_x\text{Zr}_2\text{Ga}_3\text{O}_{12}$ (with $\text{Ln} = \text{Y}, \text{La}, \text{Gd}, \text{Lu}$), *J. Luminescence* **266** (2024) 120315, DOI: 10.1016/j.jlumin.2023.120315
272. T. Pier, T. Jüstel, Application of Eu^{3+} Doped Tungstates for Solid State Lighting, *Optical Materials: X* **22** (2024) 100299, DOI: 10.1016/j.omx.2024.100299
273. J. Kösters, D. Böhnisch, T. Jüstel, R. Pöttgen, Diguanidinium hexafluoridogermanate (IV) – an organic-inorganic hybrid salt with an antiferrotopology, *Z. Naturforschung B* **79** (2024) 1, DOI: 10.1515/znb-2024-0007
274. J. Petrausch, M. Hönig, T. Jüstel, Untersuchung des Faserfreisetzungspotenzials von asbesthaltigen bauchemischen Produkten / Examination of the fibre release potential of asbestos containing construction chemicals, *Gefahrstoffe Reinhaltung der Luft* **84** (2024) 23, DOI: 10.37544/0949-8036-2024-01-02-25
275. S. Reetz, F. Schröder, T. Jüstel, On the Energy Dependence of the PL of RE Ions in $\text{LuBO}_3:\text{RE}$ ($\text{RE} = \text{Ce}, \text{Eu}, \text{Gd}, \text{or Tb}$), *Crystals* **14** (2024) 341, DOI: 10.3390/cryst14040341
276. A.T. Schwarz, M. Ströbele, C.P. Romao, D. Enseling, T. Jüstel, H.-J. Meyer, The Luminescent Semiconductor $\text{Pb}_7\text{I}_6(\text{CN}_2)_4$, *Dalton Transactions* **53** (2024) 6416, DOI: 10.1039/D4DT00369A

277. J. Exeler, T. Jüstel, 4f-4f Absorption Strength of Eu^{3+} in $\text{La}_2\text{Zr}_3(\text{MoO}_4)_9$ Compared to other Eu^{3+} Activated Luminescent Materials, *Mat. Res. Bull.* **176** (2024) 112816, DOI: 10.1016/j.materresbull.2024.112816
278. G. Inkrataite, J.-N. Keil, A. Kizalaite, T. Jüstel, R. Skaudzius, Synthesis of New Composition Praseodymium Doped Lutetium and Gadolinium Aluminum Garnets Modified by Scandium and Boron to Improve Luminescence Properties, *Ceramics International* (2024) submitted for publication
279. S. Krämer, J. Hopster, M. Grünebaum, T. Jüstel, M. Winter, K. Neuhaus, Teaching an old dog new tricks: Ti-doped ZnFe_2O_4 as active material in zinc ion batteries – A Proof of Concept, *Adv. Energy Materials* (2024) submitted for publication
280. M. Ströbele, D. Enseling, T. Jüstel, S. Kroeker, H.-J. Meyer, Metal-Halide-Melem Adducts based on M_6^- , M_9^- and M_{12} -Clusters, *Eur. J. Inorg. Chem.* (2024) submitted for publication
281. J. Kappelhoff, B. Greve, T. Jüstel, On the Temperature and Time Dependent Photoluminescence of Nanoscale $\text{LuPO}_4:\text{Eu}^{3+}$ and Their Application for Bioimaging, *Royal Society of Chemistry* (2024) submitted for publication
282. A.N. Erkmen, R. Ulber, T. Jüstel, M. Altendorfner, New Frontiers in the Re-evaluation of Waste Inorganic LEDs to Recover Critical Elements, *Chemospheres* (2024) submitted for publication
283. O. Kysliak, M. Ströbele, D. Enseling, T. Jüstel, H.-J. Meyer, Cationic Control on the Formation of Europium Carbodiimide Chlorides, *Eur. J. Inorg. Chem.* (2024) submitted for publication
284. E. Bayat, M. Ströbele, M. Abbasi, S. Kroeker, J. Valenta, D. Enseling, T. Jüstel, H.-J. Meyer, Novel Synthesis Route, Post-Synthesis Treatment, and Insights into the Photoluminescence and Magnetic Properties of Tricopper(I) Melamine $\text{Cu}_3(\text{C}_3\text{N}_6\text{H}_3)$, *Inorg. Chem.* (2024) submitted for publication

Angemeldete / Erteilte Patente

1. T. Jüstel, C.R. Ronda, Low Pressure Mercury Discharge Lamp, DE69701030 T2, JPH11514701 A, EP0858492 B1, US5892324 A, WO1998008917 A1
2. T. Jüstel, H. Nikol, H. Börner, W. Busselt, Organic Electroluminescent Component with Exciplex Formed from a Mixed Layer of a Mixture of Hole Transporting and Electron Transporting Organic Material, DE19638770 A1, EP0831676 B1, JPH10106748 A, US 5955836 A
3. T. Jüstel, H. Nikol, H. Boerner, C.R. Ronda, Molekulare Phosphore als rote Emitter für die Anregung durch UV-emittierende GaN-Dioden, DE19708407 A1, EP0907970 B1, US6084250 A

4. H. Boerner, W. Busselt, T. Jüstel, C.R. Ronda, H. Nikol, Detection and Measurement Method for Luminescent Substance, DE19709377 A1
5. T. Jüstel, H. Nikol, H. Boerner, W. Busselt, Neue Photoantennen für Eu^{3+} und Tb^{3+} , DE19708562 A1, IB9800268 W
6. T. Jüstel, H. Nikol, W. Busselt, H. Boerner, Organic Electroluminescent Device for e.g. Solid State Image Enhancers, DE19726472 A1
7. T. Jüstel, W. Czarnojan, W. Mayr, H. Nikol, C.R. Ronda, H. Bechtel, Aluminate Phosphor with a Polyphosphat Coating, DE19727607 C2, EP0887397 B1, US5998047 A, JPH117388 A
8. T. Jüstel, C. Borgmann, F. Schüth, Phosphors Having an Aluminosilicate as Host Lattice, EP97201665 A1
9. T. Jüstel, H. Boerner, W. Busselt, H. Nikol, Organic Electroluminescent Device for e.g. Solid State Image Enhancers, DE19756361 A1
10. T. Jüstel, H. Nikol, C.R. Ronda, White Light-Emitting Diode, DE59814117 D1, JP2000509912 A, EP0907970 B1, US6084250 A, WO1998039805 A1
11. T. Jüstel, H. Nikol, C.R. Ronda, D. v.d. Voort, C.J. Jalink, Low Pressure Mercury Discharge Lamp, DE69818785 D1, US6208069 B1
12. H. Boerner, T. Jüstel, H. Nikol, Diode Addressed Colour Display with Lanthanide Phosphors, DE19800983 A1, JP52929498 A
13. H. Boerner, T. Jüstel, H. Nikol, C.R. Ronda, Diode Addressed Colour Display with Molecular Phosphor, DE19802046 A1, EP 907971 A1, US 6051925 A
14. T. Jüstel, J. Merikhi, H. Nikol, C.R. Ronda, Method of Coating a Luminescent Material, DE69924601 D1, JP2002523551 A, EP1047750 B1, CN1218013 C, US6833160 B2, WO2000011104 A1
15. T. Jüstel, W. Mayr, H. Nikol, C.R. Ronda, Luminescent Material Coated with a Protective Layer, DE69926114 D1, JP4409093 B2, EP1047749 B1, CN1244665 C, US6426589 B1, WO2000011103 A1
16. T. Jüstel, H. Nikol, C.R. Ronda, Luminescent Material, EP98202063.8, US09/205973
17. H. Boerner, W. Busselt, T. Jüstel, H. Nikol, C.R. Ronda, Verlichtingssysteem, EP98203247.6
18. H. Boerner, W. Busselt, T. Jüstel, H. Nikol, C.R. Ronda, LED Lighting System for Producing White Light, EP1047904 B1, US6234645 B1

19. T. Jüstel, H.F. Boerner, H. Nikol, W. Busselt, Discharge Lamp, EP1051453 A1, US6410169 B1, JP2002530826 A, CN1161446 C, WO2000031207 A1
20. H. Bechtel, T. Jüstel, W. Mayr, H. Nikol, C.R. Ronda, Luminescent Material, EP98203880.4, US09/437479
21. T. Jüstel, H. Nikol, C.W.A. Schetters, Luminescent Material, DE69911578 D1, JP2002530485 A, EP1048054 B1, CN1289448 A, US6407498 B1, WO2000030152 A1
22. T. Jüstel, C. Borgmann, F. Schüth, Luminescent Material, EP0917557 A1, JP2000516296 A, CN1236384 A, US6133688 A, WO1998055562 A1
23. T. Jüstel, J. Dirscherl, H. Nikol, D.U. Wiechert, Device for Disinfection of Water with UV-C Discharge, DE19919169 A1, JP4647745 B2, EP1048620 B1, CN1160258 C, US6398970 B1
24. T. Jüstel, H. Nikol, C.R. Ronda, J.T.W. de Hair, Luminescent Material, EP0970160 A1, JP2001512528 A, CN1248282 A, US6184618 B1, WO1999032575 A1
25. T. Jüstel, C.R. Ronda, V. Weiler, Plasma Display Panel with Coated Phosphor, DE19937420 C1, EP1076083, US6602617 B1, JP2001089759
26. T. Jüstel, H. Nikol, H. Bechtel, C.R. Ronda, Plasma Display Panel with Red Phosphor, DE19952242 A1, EP1103591 A1, US6509685 B1, JP2001155649 A, KR20010051291 A
27. T. Jüstel, H. Nikol, W. Mayr, Phosphor Layer Comprises a Red, Europium Activated Phosphor, Selected from a group of mixed oxides of barium, gadolinium, silicon, germanium, or yttrium, gadolinium, niobium, or yttrium gadolinium tantalum or oxyfluoride or oxychloride, DE19962029 A1, EP1118650 A2, US6572785 B2, JP2001222960 A
28. H. Bechtel, T. Jüstel, H. Nikol, C.R. Ronda, Liquid crystal color display screen comprising a phosphor layer, DE10001188 A1, EP1116989 A3, US6654079 B2, JP2001242459 A, KR100681910 B1
29. T. Jüstel, H. Nikol, W. Busselt, K. Jalink, Soft-Tone Fluorescent Lamp, DE10001763 A1, EP1119020 B1, US6570319 B2, JP2001250506 A
30. D.U. Wiechert, H. Bechtel, T. Jüstel, Reflection Ability Measurement Device for Optical System, has Sphere Coated with Luminescent Substance on Entire Inner Surface, DE10002294 A1
31. T. Jüstel, W. Busselt, H. Nikol, Plasma Picture Screen with Blue Phosphor DE10009916 A1, EP1130621 A3, US7053543 B2, JP2001283739 A, KR100750609 B1

32. T. Jüstel, H. Bechtel, W. Mayr, H. Gläser, H. Nikol, Plasma Screen with UV Light Emitting Layer, DE10009915 A1, EP1132938 A3, JP2001283740 A, US6559598 B2, KR20010087217 A
33. H. Nikol, T. Jüstel, R. van Asselt, D. Broer, Liquid Crystal Color Picture Screen, DE 10012326 A1, EP1136871 A3, US6563556 B2, JP2001330824 A, KR20010096598 A
34. T. Jüstel, H. Nikol, C.J. Jalink, Noble-Gas Low-Pressure Discharge Lamp, Process for Preparing a Noble-Gas Low-Pressure Discharge Lamp Bulb as well as the Use of a Gas Discharge Lamp, DE10023504 A1, EP1154461 B1, US6787979 B2, JP2002050316 A, CN100557761 C
35. T. Jüstel, G. Spekowius, S. v Heusden, G. Oversluizen, S.T. de Zwart, Plasma Picture Screen with Terbium(III)-activated Phosphor, DE10024835 A1, EP1158559 A3, JP2002015674 A, US6462473 B1, KR20070120927 A, CN1218356 C
36. T. Jüstel, H. Bechtel, J. Opitz, Plasma Display Panel with a Terbium(III)-Phosphor, DE10024836 A1, EP1156507 B1, US6573654 B2, JP2002033055 A, CN1242448 C
37. T. Jüstel, H. Nikol, C.R. Ronda, Low-pressure Mercury Discharge Lamp Comprising an Outer Bulb, DE10026909 A1, EP1160834 B1, US6888302 B2, JP2002025502 A, CN1222981 C
38. C. Feldmann, T. Jüstel, C.R. Ronda, H.O. Jungk, J. Merikhi, Gas Discharge Lamp Comprising a Phosphor Layer, DE10026913 A1, EP1160835 A1, US6504320 B2, JP2002015706 A, CN1327257 A
39. H. Bechtel, W. Busselt, T. Jüstel, M. Weibrecht, P. Quadflieg, Colour Display panel with Blue Luminous Layer, DE10043530 A1, EP1187167 B1, US6762548 B2, JP2002175763 A, KR100765307 B1, CN1305099 C
40. T. Jüstel, C.R. Ronda, W. Mayr, P. Schmidt, V. Weiler, A Light Emitting Device with a Coated Phosphor, DE10051242 A1, EP1199757 A3, US7202598 B2, JP2002223008 A, CN1255883 C
41. T. Jüstel, W. Busselt, C. Feldmann, W. Mayr, Gas Discharge Lamp with a Phosphor Layer, DE10057881 A1, EP1342258 A1, US6777879 B2, JP2004514748 A, CN1235264 C, WO2002043106 A1
42. T. Jüstel, H. Bechtel, Plasma Picture Screen with Mixed Particle Screen, DE10061720 A1, EP1215698 B1, US6794821 B2, JP4197098 B2, KR100898199 B1, CN100557752 C
43. T. Jüstel, H. Bechtel, W. Mayr, Plasma Screen with a Phosphor Layer, DE10104364 A1, EP1229099 A3, US6736995 B2, JP2002317176 A, KR20020064172 A, CN1368751 A

44. H. Bechtel, T. Jüstel, H. Gläser, J. Opitz, Plasma Display with Improved Luminance, DE10106963 A1, EP1233438 A2, US2002113542 A1, JP2002279907 A, KR20020067632 A, CN1371115 A
45. C. Feldmann, T. Jüstel, C.R. Ronda, D.U. Wiechert, Gas Discharge Lamp with Down Conversion Phosphor, DE10121094 A1
46. M.A. Doytcheva, C. Feldmann, T. Jüstel, C.R. Ronda, Gas Discharge Lamp with Down Conversion Luminophore, DE10121096 A1, EP1253625 B1, US6600260 B2, JP2003031181 A, CN1265420 C
47. H.-H. Bechtel, T. Jüstel, W. Busselt, J. Opitz, H. Gläser, V. v. Elsbergen, Plasma Picture Screen with Improved White Color Point, DE10122287 A1, EP1258902 A3, US6700324 B2, JP2002358893 A, KR20020085807 A, CN1389893 A
48. C. Feldmann, T. Jüstel, C.R. Ronda, W. Mayr, Plasma Screen with Blue Phosphor, DE10123236 A1, EP1256616 B1, US6666992 B2, JP2003041251 A
49. T. Jüstel, H. Bechtel, D. Bertram, Liquid Crystal Picture Screen with White Light Source, DE10125547 A1, EP1397825 B1, US20040130256 A1, JP2004520699 A, KR100839945 B1, WO2002095791 A1
50. C. Feldmann, D.U. Wiechert, T. Jüstel, C.R. Ronda, A. Meijerink, K. Oskam, R.T. Wegh, Gas Discharge Lamp with Down Conversion Phosphor, DE10126159 A1, EP1397826 B1, US7141920 B2, JP2004527637 A, CN1274004 C, WO2002097859 A1
51. R. Scholl, R. Hilbig, A. Körber, J. Baier, T. Jüstel, P.J. Schmidt, Mercury Free Low Pressure Gas Discharge Lamp, DE10128915 A1, EP1267389 B1, US6731070 B2, CN1311512 C
52. R.P. Scholl, R. Hilbig, A. Körber, J. Baier, T. Jüstel, C.R. Ronda, Low Pressure Gas Discharge Lamp with Mercury-Free Gas Filling, DE10129464 A1, EP1428241 B1, US20040169456 A1, JP4095019 B2, CN1541402 A, WO2002103748 A1
53. T. Jüstel, R. Hilbig, C. Feldmann, H.-O. Jungk, W. Mayr, Low-Pressure Gas Discharge Lamp with a Phosphor Coating, DE10129630 A1, EP1271617 A3, US6734631 B2, JP2003022783 A, CN1319112 C
54. T. Jüstel, W. Mayr, D.U. Wiechert, H. Lade, Discharge Lamp for Dielectrically Impeded Discharges Comprising Blue Phosphor, DE10130330 A1, EP1271618 A3, US6940216 B2, JP2003113375 A, CN100392795 C
55. H. Bechtel, W. Busselt, H. Gläser, T. Jüstel, Cathode Ray Tube Comprising an Electron Beam-Control Arrangement, DE10132271 A1, WO2003005405 A3
56. T. Jüstel, H. Bechtel, H. Gläser, W. Mayr, Plasma Display Screen with Increased Efficiency, DE10135692 A1, KR20040028617 A, WO2003010791 A3

57. T. Jüstel, G. Heusler, M. Klein, Plasma Screen with Increased Efficiency, DE10146798 A1, EP1296348 A2, US20030057832 A1, JP2003151444 A, KR20030025820 A, CN1426084 A
58. T. Jüstel, W. Mayr, Plasma Display Screen Comprising a Green Phosphor, DE10158273 A1, EP1451838 B1, US7372196 B2, JP4317019 B2, KR100951095 B1, CN1319104 C, WO2003046935 A3
59. T. Jüstel, H. v. Busch, G. Heusler, W. Mayr, A Device for Generating Ultraviolet Radiation, DE10209191 A1, EP1483777 B1, US7298077 B2, JP2003573674 A, WO2003075314 A1
60. T. Jüstel, W. Mayr, P.J. Schmidt, Plasma Screen with Pr³⁺-Activated Phosphor, DE10210043 A1, WO2003075303 A1
61. T. Jüstel, W. Mayr, Plasma Display Panel Comprising a Tb³⁺-activated Fluorescent Substance, DE10217552 A1, US20050151472 A1, WO2003090246 A3
62. P.J. Schmidt, T. Jüstel, C.R. Ronda, D.U. Wiechert, A Process for Producing a Luminescent Material with High Thermal Erasing Temperature, DE10220292 A1, EP1506268 A1, US20050173675 A1, JP2005524756 A, WO2003095588 A1
63. T. Jüstel, W. Mayr, C.R. Ronda, V. Hildenbrand, Fluorescent Lamp with Ultraviolet Reflecting Layer, EP1512167 A1, US7205710 B2, JP4500162 B2, CN1331187 C, WO2003100821 A1
64. G.O. Mueller, R.B. Mueller-Mach, P.J. Schmidt, T. Jüstel, J. Opitz, Light Emitting Devices Utilizing Nanoparticles, Quantum Dots to Improve the Efficiency of pcLED, EP1369935 A1, US6870311 B2, JP4666891 B2, WO2003105242 A1
65. R. Scholl, R. Hilbig, A. Körber, J. Baier, T. Jüstel, P. Schmidt, Low-Pressure Gas Discharge Lamp with a Mercury-Free Gas Filling, DE10128915 A1, EP1267389 B1, US6731070 B2, CN1311512 C,
66. T. Jüstel, W. Mayr, H. Wiczorek, Device for Generating Images and/or Projections, DE10238398 A1, EP1532471 A1, US7535009 B2, JP2005536736 A, CN100338479 C, WO2004019059 A1
67. T. Jüstel, C.R. Ronda, F.A. Altena, W. Busselt, O. Mastenbroek, H.-H. Bechtel, Tanning Device, DE10231257 A1, EP1523760 B8, US7288107 B2, WO2004008485 A1
68. T. Jüstel, H. Blankefort, W. Mayr, P.J. Schmidt, Device for Generating Radiation, DE10238399 A1, EP1532224 B1, US20060108910 A1, JP2005536843 A, CN1304526 C, WO2004018589 A8
69. T. Jüstel, H. Boerner, Electroluminescent Display with Improved Light Outcoupling, EP1550356 A1, US20060152150 A1, JP2006501617 A, CN1685770 B, KR20050072424 A, WO2004032576 A1

70. P.J. Schmidt, H. Höpfe, T. Jüstel, W. Mayr, H.-D. Bausen, W. Schnick, Light Emitting Device Comprising an Eu(II)-Activated Phosphor, DE60305958 T2, EP1554914 B1, US7061024 B2, JP4599163 B2, WO2004036962 A1
71. R.B. Mueller-Mach, G.O. Mueller, P.J. Schmidt, T. Jüstel, G. Sorce, Phosphor Converted Light Emitting Device, DE60335848 D1, EP1411558 B1, JP4477854 B2, US6717353 B1
72. T. Jüstel, D. Bertram, P.J. Schmidt, Luminous Body for Generating White Light, DE102476833, US20060023447 A1, JP2004544571 A, CN1706023 A, WO2004036618 A1
73. T. Jüstel, W. Mayr, P.J. Schmidt, Plasma Display Screen with Blue Emitting Phosphor, DE10254175 A1, EP1565924 A2, US20060001370 A1, JP2006507384 A, WO2004047138 A3
74. T. Jüstel, P.J. Schmidt, Illumination System Comprising a Radiation Source and a Fluorescent Material, EP02102752
75. R. Mueller-Mach, G.O. Mueller, T. Jüstel, P.J. Schmidt, Red Deficiency Compensating Phosphor Light Emitting Device, EP1339109 A3, US6680569 B2, JP2003273409 A5
76. D. Bertram, H. Hummel, T. Jüstel, Elektroluminescent Device with Quantum Dots, EP1603991 A1, US20060170331 A1, JP2006520077 A, CN100422286 C, WO2004081141 A1
77. T. Jüstel, H. Höpfe, W. Mayr, P.J. Schmidt, W. Schnick, Illumination System Comprising a Radiation Source and a Fluorescent Material, DE60312733 T2, EP1573826 B1, US7544309 B2, JP4418758 B2, WO2004055910 A1
78. T. Jüstel, P. Huppertz, D.U. Wiechert, W. Mayr, H. v. Busch, Dielectric Barrier Discharge Lamp Comprising an UV-B Phosphor, DE602005011782 D1, EP1741118 A2, US7855497 B2, JP2007534128 A, CN1947213 B, WO2005104162 A3
79. T. Jüstel, C.R. Ronda, Bräunungsvorrichtung mit Halbleiter-Leuchtdioden, DE602004019514 D1, EP1624931 B1, US7901442 B2, JP2006525838 A, WO2004098709 A1
80. T. Jüstel, H. Bechtel, D. Bertram, H. Boerner, A.G. Meijers, UV Light Source Coated with Nano-Particles of Phosphor, EP1627177 A1, US20070053208 A1, JP2006526258 A, CN1784572 A, WO2004099664 A1
81. T. Jüstel, D. Bertram, Colour Tunable Lighting Element, EP1647044 A2, US20060164830 A1, JP2007531205 A, KR20060033799 A, CN1823398 A, WO2005006388 A3

82. T. Jüstel, D. Bertram, Apparatus for Reducing Contaminants in a Fluid Stream Comprising a Dielectric Barrier Excimer Discharge Lamp, EP1656195 A1, WO2005011843 A1, WO2005011843 A1
83. T. Jüstel, C.G.A. Hoelen, J.P.M. Ansems, Color-Mixing Lighting System, EP1676076 A2, US20060285324 A1, JP2007504644 A, CN1894806 A, KR20060134908 A, WO2005022030 A3
84. V.D. Hildenbrand, T. Jüstel, M.J.S.E. Sensen, P.J. Schmidt, Low Pressure Vapor Discharge Lamp with a Mercury Free Gas Filling, EP1685583 A1, US20070132360 A1, JP2007513469 A, CN1879193 A, WO2005045881 A1
85. T. Jüstel, C. Feldmann, Radiation Therapy and Medical Imaging Using UV Emitting Nanoparticles, EP1696957 A2, US20070274909 A1, JP2007514736 A, CN1893976 A, WO2005058360 A3
86. T. Jüstel, W. Mayr, P.J. Schmidt, Illumination System Comprising a Radiation Source and a Luminescent Material, EP1824944 A2, US20090218581 A1, JP2008523169 A, CN101072844 A, WO2006061747 A3
87. T. Jüstel, H. Bechtel, W. Mayr, P.J. Schmidt, Low Pressure Mercury Vapor Discharge Lamp comprising UV-A Phosphor, EP1758965 A1, US7591962 B2, JP2008500422 A, CN1961056 A, WO2005116164 A1
88. T. Jüstel, W. Mayr, P.J. Schmidt, Illumination System Comprising a Radiation Source and a Fluorescent Material, EP1824944 A2, US20090218581 A1, JP2008523169 A, CN101072844 A, WO2006061747 A3
89. T. Jüstel, D. Bertram, Electroluminescent Structure and LED with an EL Structure, DE602005022067 D1, EP1757170 B1, US20070252512 A1, JP2008502102 A, CN1965614 B, KR101303372 B1, WO2005120135 A1
90. T. Jüstel, D. Bertram, LED with Improved Light Emittance Profile, EP1761958 A2, US20080284329 A1, JP2008503087 A, CN100483757 C, WO2005124877 A8
91. T. Jüstel, W. Mayr, O. Mastenbroek, Low Pressure Discharge Lamp Comprising a UV-B Phosphor, DE602005011614 D1, EP1759305 B1, US7884535 B2, JP5281285 B2, CN1969357 B, WO2005124825 A8
92. T. Jüstel, P.J. Schmidt, Illumination System Comprising a Radiation Source and a Fluorescent Material, DE602005006802 D1, EP1753840 B1, US7700002 B2, JP2008501818 A, CN101163775 B, WO2005116163 A1
93. T. Jüstel, G. Gärtner, G. Greuel, W. Schiene, UV-C/VUV Dielectric Barrier Discharge Lamp with Reflector, EP1769522 B1, US7687997 B2, JP5054517 B2, CN101133475 B, WO2006006129 A3
94. T. Jüstel, H. Bechtel, H. Nikol, C.R. Ronda, Illumination System Comprising a Radiation Source and a Luminescent Material, EP 1773966 A1, US 8417215 B2, JP 2007523212 A, CN 1989224 A, WO 2006013513 A1

95. T. Jüstel, A.G.H. Meijers, H. Bechtel, D. Bertram, W. Busselt, H. Boerner, Light Emitting Plate System with Improved Transparency, EP 1797466 A1, US 20090185383 A1, JP 2008515019 A, CN 100480750 C, WO 2006035354 A1
96. T. Jüstel, J. Broere, R. Goertz, J.R.M. Hochstenbach, Light Emitting Device with a Phosphor Blend of a Red Emitting Eu^{3+} Phosphor and an UV Emitting Phosphor, EP 1797160 A1, US 7935273 B2, JP 2008514773 A, WO 2006035355 A1
97. T. Jüstel, W. Busselt, R.P. Scholl, P.J. Schmidt, Light Source with Improved Dimming Behaviour, DE 602005026312 D1, EP1815536 B1, US 20110095694 A1, JP 5627839 B2, ES 2360717 T3, CN 100449802 C, WO 2006054204 A9, TWI 425650 B, PL 1815536 T3, ATE 498206 T1
98. T. Jüstel, H. Bechtel, D. Bertram, W. Busselt, S. Golsch, Light Emitting Device with Conversion Structure, DE 602005007629 D1, EP 1815532 B1, US 7982229 B2, JP 2008521233 A, CN 100472827 C, WO 2006054203 A1
99. T. Jüstel, V. Bachmann, C.R. Ronda, P.J. Schmidt, Illumination System Comprising a Radiation Source and a Fluorescent Material, EP 1819799 A1, JP 2008521994 A, CN 101072843 A, WO 2006059260 A1, TW 200628590 A
100. T. Jüstel, W. Busselt, W. Mayr, P.J. Schmidt, Illumination System Comprising a Radiation Source and a Luminescent Material, EP1604141 B1, US7038370 B2, JP2006520836 A, CN100529509 C, WO2004084261 A3
101. T. Jüstel, G. Gärtner, G. Greuel, J. Meyer, W. Schiene, Dielectric Barrier Discharge Lamp with Protective Coating, EP 1839326 A1, US 20080203891 A1, JP 2008527102 A, CN 101103433 A, WO 2006072893 A1
102. T. Jüstel, W. Mayr, W.J.M. Schrama, Illumination System Comprising Barium Magnesium Aluminate Phosphor, WO 2006072919 A3, TW 200639236 A
103. T. Jüstel, W. Mayr, J. Meyer, Device for Generating UV-C Radiation, DE 602006002740 D1, EP 1874895 B1, US 7808170 B2, JP 5074381 B2, KR 101256387 B1, WO 2006109238 A3, CN 101160373 B
104. T. Jüstel, M. Born, Lighting Apparatus for Biological and Medical Purposes, EP 1874405 A2, US 20080205033 A1, JP 2008537304 A, CN 101163519 A, WO 2006111903 A3
105. T. Jüstel, W. Mayr, J. Meyer, P.J. Schmidt, Illumination System Comprising Color Deficiency Compensating Luminescent Material, EP 1893719 B1, US 7753553 B2, JP 5042999 B2, CN 101184823 B, WO 2006129228 A3
106. T. Jüstel, W. Mayr, P.J. Schmidt, Leuchtstoff, EP 05107759.2

107. H. Bechtel, T. Jüstel, J. Opitz, H. Winkler, Photonic Material with Regularly Arranged Cavities, EP 1913646 A1, US 20100207139 A1, JP 2009504809 A, KR 20080037707 A, CN 101238596 B, WO 2007017049 A1
108. H. Hummel, T. Jüstel, R. Hoffmann, C.R. Ronda, Radiation Sensitizers for Ionizing Electromagnetic Radiation Therapy and Imaging, EP 1920784 A1, WO 2008059419 A1
109. T. Jüstel, J. Merikhi, Low Pressure Discharge Lamp Having Improved Efficiency, EP 1969087 A2, US 20080266861 A1, JP 2009519576 A, CN 101331208 A, WO 2007069120 A3
110. T. Jüstel, P. Huppertz, D. Uhlich, D.U. Wiechert, Light Emitting Device with a Eu-Comprising Phosphor Material, EP 1979439 A1, US 7446343 B2, JP 2009524212 A, CN 101370907 A, KR 20080089486 A, WO 2007080541 A1
111. H. Bechtel, T. Jüstel, J. Opitz, H. Winkler, Method for Incorporating Nanophosphors in Microoptical Structures, DE 10 2006 008 879 A1, EP 1989578 A1, US 20090020897 A1, JP 2009528397 A, KR 20080110764 A, CA 2646457 A1, WO 2007098838 A1
112. T. Jüstel, W. Mayr, J. Meyer, Colour Filter for Display Application, WO 2007093928 A1
113. T. Jüstel, H. Bettentrup, P. Huppertz, J. Opitz, D.U. Wiechert, Luminescent Material Using (Y,Gd)-containing Nanoparticle and Surface Bound Organic Ligands, EP 1994120 A1, US 20090014685 A1, JP 2009529085 A, CN 101400759 A, RU 2434925 C2, WO 2007102094 A1
114. T. Jüstel, P. Huppertz, D.U. Wiechert, T. Rat, Discharge Lamp Comprising UV Phosphor, EP 2007845 A1, US 20090160341 A1, JP 2009504863 A, CN 101421374 A, WO 2007116331 A1
115. T. Jüstel, H. Hummel, C.R. Ronda, Core-Shell Nanoparticles for Therapy and Imaging Purposes, EP 2040752 A2, US 20090191128 A1, JP 2009544584 A, CN 101489590 A, WO 2008007290 A3
116. T. Jüstel, J. Merikhi, H. Hummel, P.K. Bachmann, Colloidal Suspensions of Nanoscale Particles, EP 1923449 A1
117. T. Jüstel, H. Hummel, C.R. Ronda, R. Hoffmann, Radiation Sensitizers in Ionizing Radiation Therapy and Imaging, EP 1920784 A1, WO 2008059419 A1
118. T. Jüstel, H. Bechtel, J. Opitz, H. Ohland, D. Uhlich, H. Bettentrup, D.U. Wiechert, Illumination System Comprising Hetero- Polyoxymetalate, WO 2008065567 A1
119. T. Jüstel, C.R. Ronda, Illumination System Comprising a Compound with Low Thermal Expansion Coefficient, EP 2122694 A2, US 20100181585 A1, JP 2010521805 A, CN 101632181 B, WO 2008110976 A3

120. T. Jüstel, J. Meyer, C.R. Ronda, Fluorescent Mercury Vapor Discharge Lamp comprising Trichromatic Phosphor Blend, WO 2008129489 A3
121. T. Jüstel, H. Bettentrup, J. Opitz, D. Uhlich, Novel Color Filters for Color Display and Light Sources, WO 2008139397 A1
122. T. Jüstel, H. Bettentrup, D. Uhlich, Green light emitting material, EP 2007/108266.3
123. H. Winkler, K. Ambrosius, T. Jüstel, K.I. Nitta, K.I. Shimizu, Phosphor Body Containing Ruby for White or Color-on-Demand LEDs, DE 10 2007 001 903 A1, US 20100045163 A1, CA 2669828 A1, WO 2008058618 A1
124. T. Jüstel, T. Vosgroene, H. Winkler, S. Möller, Luminophores Made of Doped Garnets for pcLEDs, DE 10 2007 010 719 A1, EP 2115092 B1, US 8088304 B2, JP 5313173 B2, CN 101641425 B, KR 101487040 B1, WO 2008107062 A1
125. T. Jüstel, H. Winkler, Illumination Unit Consisting of Discharge Lamp, LEDs and Conversion Phosphors, DE 10 2007 022 566 A1, EP 2147454 A1, US 8256920 B2, JP 2010507812 A, CN 101681788 A, KR 20100025524 A, WO 2008138449 A1
126. T. Jüstel, O. Mizerak, J. Meyer, C.R. Ronda, U. Weichmann, A.J. Bengoechea, Green Emitting Solid-State Laser Comprising a Sesquioxide and/or Ceramic Material, WO 2009063388 A3
127. T. Jüstel, D. Uhlich, C.R. Ronda, H.-H. Bechtel, M. Heidemann, P.J. Schmidt, Color Filter for a Light Emitting Device, WO 2009083867 A1, TW 200949308 A
128. T. Jüstel, H. Winkler, LCD Backlighting with LED Phosphors, DE 10 2007 039 260 A1, EP2179323 A1, US 20110299008A1, JP 2010537375 A, CN 101784948 A, KR 20100074142 A, WO 2009024229 A9
129. T. Jüstel, J. Merikhi, H. Ohland, J. Opitz, H.J.G. Radermacher, D.U. Wiechert, GLS-alike LED Light Source, EP 2247891 A1, US 8651723 B2, JP 5437277 B2, CN101946115 B, KR 20100122502 A, RU 2503880 C2, WO 2009104136 A1
130. T. Jüstel, J. Merikhi, Preparation of Nanoparticles from Metal Salts or Metal Oxides, EP 2093192 A1, WO2009107046 A1
131. T. Jüstel, H.P. Loebel, C.M. Goldmann, J. Opitz, Phosphor Converted OLED Illumination Device, WO 2010023603 A2, TW 201018309 A
132. T. Jüstel, M. Büchel, S. Hartmann, Shorts Prevention in Organic Light Emitting Diodes, EP 2371017 A1, US 9601716 B2, JP 5882738 B2, CN 102224615 B, KR 101650703 B1, WO 2010061313 A1
133. T. Jüstel, J. Plewa, H. Winkler, Doped garnet fluorescent substance having red-shift for pcLEDs, DE10 2008 051 029 A1, EP 2350231 A1, US 8350465 B2, JP 5611960 B2, CN 102186944 B, KR 20110069151 A, WO2010043287 A1

134. T. Jüstel, A. Katelnikovas, D. Uhlich, R. Petry, T. Vosgroene, H. Winkler, 1-1-2-co-dotierte Nitride, T. Jüstel, DE 10 2008 058 621 A1, EP 2324096 B1, US 8858834 B2, JP 5662330 B2, CN 102216419 B, KR 101656900 B1, WO 2010057572 A3
135. T. Jüstel, J. Merikhi, Monodisperse Nanoparticles and their Application, EP 2194025 A1
136. T. Jüstel, G. Greuel, UV Emitting Discharge Lamp, EP 2401343 A1, US 20110301672 A1, JP 2012518698 A, CN 102333843 A, WO 2010097731 A1
137. T. Jüstel, D. Dutczak, D. Uhlich, R. Petry, T. Vosgroene, H. Winkler, Nitridosilicates Co-doped with Zirconium and Hafnium, T. Jüstel, DE 10 2009 010 705 A1, EP 2401342 B1, US 9028716 B2, JP 2012519216 A, CN 102333844 B, KR 20110126725 A, WO 2010097157 A1
138. T. Jüstel, C. Goldmann, H. Hummel, M. Wendt, W.O. Budde, A Device for Placement in Front of a Display Device, EP 2412155 A2, US 20120092242 A1, JP 2012522260 A, CN 102365863 A, RU 2011143302 A, WO 2010109380 A3
139. T. Jüstel, D.A. Dutczak, D.D. Beyerlein, J. Flechsig, P. Huppertz, J. Meyer, K. Schöller, D.U. Wiechert, Illumination Device with Afterglow Characteristics, EP 2430114 A1, US 20120063151 A1, JP 2012526888 A, CN 102421870 A, KR 20120013430 A, WO 2010131174 A1
140. T. Jüstel, U. Weichmann, C.R. Ronda, J. Opitz, Light-emitting Device with a Luminescent Medium Corresponding Lighting System Comprising the Light-Emitting Device and Corresponding Luminescent Medium, EP 2411484 A2, US 20120069544 A1, JP 2012521651 A, CN 102361955 A, KR 20110129972 A, CA 2756403 A1, RU 2011142752 A, WO 2010109372 A3, BRPI 1006230 A2
141. T. Jüstel, D. Dutczak, Luminescent Ceramic Rare-Earth Metal Doped Material with Strong Afterglow, EP 2009/164654.7
142. T. Jüstel, A. Katelnikovas, D. Uhlich, R. Petry, H. Winkler, T. Vosgroene, Co-doped Silicooxynitride, DE 10 2009 032 711 A1, EP 2454340 A1, US 6700322 B1, KR 20120052974 A, CN 102471681 B, WO 2011006565 A1
143. T. Jüstel, C.R. Ronda, G. Greuel, L.P. Bakker, X. Zhu, Method and System for Monitoring Performance of a Discharge Lamp and Corresponding Lamp, EP 2438607 A2, US 20120074848 A1, JP 2012529142 A, CN 102625949 A, WO 2010140124 A3
144. T. Jüstel, S. Sakirzanovas, R. Petry, H. Winkler, Sm-Activated Aluminate and Borate Phosphors, DE 10 2009 050 542 A1, EP 2491094 A1, US 9102873 B2, JP 5808746 B2, KR 101752939 B1, CN 102597160 A, WO 2011047757 A1, TWI 527879 B

145. H. Winkler, P. Barnekow, C. Kühn, R. Petry, T. Vosgroene, D. Uhlich, A. Katelnikovas, D. Dutczak, T. Jüstel, Phosphors, EP 2528991 B1, US 20120300155 A1, JP 5782049 B2, CN 102725378 B, KR 20120112838 A, WO 2011091839 A1
146. T Jüstel, A .Katelnikovas, O. Darcanova, H. Winkler, Silicophosphate Phosphors, DE 10 2010 045 368 A1, EP 2616523 B1, US 8987687 B2, JP 5819967 B2, CN103124779 B, WO 2012034625 A1, KR 101849806 B1, TWI 502052 B
147. T. Jüstel, E. Brunier, D. Sendor-Müller, B. Middelhave, Schonendes Entfärben von Farbschmutz auf harten und/oder weichen Oberflächen, DE10 2009 001 114 A1, WO 2010097245 A1
148. T. Jüstel, C.R. Ronda, Tungstate-based Scintillating Materials for Detecting Radiation, US 8907292 B2
149. T. Jüstel, H. Bettentrup, A. Deitermann, S. Rütter, D. Uhlich, Luminescent Security Element for Product Protection, DE 10 2010 007 566 A1, EP 2534221 B1, US 20130193346 A1, KR20130002993 A, RU 2013109364 A, WO2011098083 A1
150. R. Scholl, T. Jüstel, LED-Based Lighting Device Comprising a Plurality of Luminescent Materials, WO 2011117791 A1
151. T. Jüstel, G. Greuel, UV-C Emitting Discharge Lamp, WO 2011121497 A1
152. T. Jüstel, R. Scholl, Light Source for Emitting Infrared Radiation, Particularly for Medical Skin Irradiation, EP 2380944 A1, WO 2011132125 A1
153. T. Jüstel, G. Greuel, UV-A or UV-B Emitting Discharge Lamp, EP 2593527 B1, US 20130116756 A1, JP 5850539 B2, CN 102985512 B, WO 2012007885 A1
154. T. Jüstel, G. Greuel, UV-A or UV-B Emitting Discharge Lamp, WO 2011161587 A1
155. T. Jüstel, C.R. Ronda, Converter Material for Solar Cells, WO 2012020341 A1
156. T. Jüstel, H. Bettentrup, A. Deitermann, S. Rütter, D. Uhlich, NIR emittierende LED auf der Basis eines Halbleiters und eines Strahlungskonversionselements, DE10 2010 032 693 A1
157. T. Jüstel, A. Bleise, H. Winkler, Mn⁴⁺ Activated Luminescent Material, DE 10 2010 047 474 A1, EP 2625247 B1, US 9080104 B2, JP 5912121 B2, CN 103154196 A, KR 20130111562 A, WO 2012045393 A1
158. H. Winkler, A. Benker, R. Petry, T. Vosgroene, T. Jüstel, D. Uhlich, Carbodiimide Phosphors, DE 10 2010 031 914 A1, EP 2596681 B1, US 9045687 B2, JP 5819960 B2, CN 102986297 B, KR 20130097161 A, WO 2012010243 A1, TWI 551667 B

159. T. Jüstel, G. Greuel, H. Bettentrup, J. Plewa, Luminescent Material and Light Emitting Device Comprising such Luminescent Material, EP 2630216 A1, US 20130207002 A1, JP 5770298 B2, CN 103210057 A, RU 2587448 C2, WO 2012052905 A1
160. T. Jüstel, D. Enseling, G. Greuel, H. Bettentrup, J. Plewa, UV Emitting Phosphors, EP 2661474 B1, US 20130289132 A1, JP 5897600 B2, CN103328609 B, RU 2581864 C2, WO 2012093298 A1
161. T. Jüstel, C.R. Ronda, Novel Scintillator Materials for Neutron Detectors, WO 2012104750 A3
162. T. Jüstel, G. Greuel, D. Hayashi, J. Yu, C.R. Ronda, UV Radiation Device, EP 2997108 A1, US 20160303394 A, CN 105209570 B, WO 2014184038 A1
163. T. Jüstel, G. Greuel, J. Kuc, Luminescent Material particles Comprising a Coating and Lighting Unit Comprising such Luminescent Material, EP 2726572 A1, US 9334442 B2, JP 5952902 B2, CN103619991 B, WO 2013001444 A1
164. T. Jüstel, G. Greuel, D. Enseling, Dielectric Barrier Xe Discharge Lamp Comprising Precoating as a Deep UV Filter, US 61/507718, US 61/542856
165. T. Jüstel, H. Bettentrup, D. Enseling, B. Herden, G. Greuel, Red Emitting Phosphor for Plasma Displays and Gas Discharge Lamps, EP 2751222 A1, US 20140333203 A1, JP 2015507318 A, CN 104024378 A, RU 2014128606 A, WO 2013088300 A1
166. T. Jüstel, G. Greuel, Black Light Discharge Lamp, US 61/507718
167. T. Jüstel, G. Greuel, M. Michalkova, Method for Producing Hydroxide/oxide Metal Nanoparticles, US 61/593388
168. T. Jüstel, G. Greuel, B. Herden, Novel UV/VUV Phosphors, US 61/594411
169. T. Jüstel, J. Plewa, H. Winkler, Luminescent Ceramic for Colour Conversion Purposes, EP 2012/002303.1
170. T. Jüstel, A. Benker, C. Hampel, R. Petry, T. Vosgroene, H. Winkler, Eu-Activated Phosphors, DE 10 2012 021 570 A1, EP 2914688 A1, US 9856417 B2, JP 6243438 B2, CN 104870608 B, KR 20150083099 A, WO 2014067609 A1, EP 2914688 B1, TWI 632225 B
171. T. Jüstel, F. Baur, A. Katelnikovas, H. Winkler, Silicate Phosphors, EP 2841529 B1, US 9657222 B2, JP 6138914 B2, CN 104271705 B, KR 20150016252 A, WO 2013159857 A1
172. T. Jüstel, B. Herden, G. Greuel, M. Müller, UV-C Emitting Discharge Lamp, US 61/736677

173. T. Jüstel, B. Herden, T. Köcklar, G. Greuel, C.R. Ronda, Ce³⁺ Activated Luminescent Compositions for Application in Imaging Systems, EP 3030629 B1, US 20160146950 A1, CN 105378031 A, RU 2016105053 A, WO 2015008241 A1
174. T. Jüstel, D. Hayashi, C.R. Ronda, G. Greuel, UV Radiation Device, EP 2997108 A1, US 9987499 B2, CN 105209570 B, WO 2014184038 A1
175. T. Jüstel, A. Benker, C. Hampel, R. Petry, T. Vosgroene, H. Winkler, Eu²⁺ Activated Phosphors, DE 10 2012 021 570 A1, EP 2914688 A1, US 9856417 B2, JP 6243438 B2, KR 20150083099 A, CN 104870608 B, WO 2014067609 A1
176. T. Jüstel, C. Suessemilch, P. Barnekow, R. Petry, T. Vosgroene, H. Winkler, Ce³⁺/Mn²⁺ Activated Garnet for Solid State Light Sources, EP 2992068 B1, US 20160108311 A1, JP 2016510958 A, CN 105378030 A, KR 20160003195 A, WO 2014177247 A1, TW 201446938 A
177. T. Jüstel, M. Müller, R. Petry, H. Winkler, Novel LED Phosphors, EP2013/002693.3
178. T. Jüstel, T. Dierkes, A. Katelnikovas, H. Winkler, (Ca,Sr,Ba)(Y,Lu)Si(4-x)Al(x)N(z-x)O(x) Phosphors as Converter in Fluorescent Devices and Emissive Displays, EP 3031302 A1, US 9745511 B2, JP 2016535719 A, CN 105474750 A, KR 20160042021 A, WO 2015018474 A1, TW 201512101 A
179. T. Jüstel, R. Petry, C. Hampel, A. Benker, H. Winkler, A. Zych, Eu²⁺-Activated Phosphor, EP 3090032 A1, US 9758722 B2, JP 2017501264 A, KR 20160094414 A, WO 2015082032 A1, CN 105814171 A, TW 201529807 A, MY 177682 A, SG 11201604518 YA
180. T. Jüstel, M. Müller, H. Winkler, R. Petry, D. Böhnisch, Pigments, WO 2015131979 A1
181. T. Jüstel, F. Baur, R. Petry, Europium or Samarium-Doped Terbium Molybdates, DE 10 2014 003 848 A1, EP 3119852 B1, US 20170107426 A1, JP 2017519843 A, CN 106103651 A, KR 20160133548 A, WO 2015139806 A1, SG 11201607767 QA
182. T. Jüstel, F. Baur, K. Heerdt, H. Winkler, R. Petry, Phosphors, DE 10 2014 006 003 A1, EP3137576 A1, US 20170051201 A1, JP 2017521503 A, CN 106459752 A, KR 20160147936 A, WO 2015165567 A1, TW 201602310 A
183. T. Jüstel, Energy Conversion System, DE10 2014 107 268 A1, WO 2015177216 A1
184. T. Jüstel, B. Malysa, I. Becker, H. Bettentrup, D. Uhlich, Infrared LED, DE 10 2014 107 321 B4, CN1 06661447 A
185. T. Jüstel, S. Möller, J. Plewa, J. Honold, T. Hilgerink, Light Emitting Device, DE 10 2014 113 068 A1, EP 3191564 A1, JP 2017535971 A, US 20170253798 A1, CN 107112397 A, WO 2016038149 A1

186. T. Jüstel, T. Dierkes, H. Winkler, R. Petry, Phosphors, EP 3204464 A1, US 2017/0306223 A1, JP 2017533306 A, KR 20170067832 A, CN 106795430 A, WO 2016055140 A1
187. T. Jüstel, H. Winkler, A. Katelnikovas, T. Dierkes, Luminescent Substances, EP 3031302 A1, US 9745511 B2, JP 2016535719 A, CN 105474750 A, KR 20160042021 A, WO 2015/0184474 A1, TW 201512101 A
188. F. Riethmüller, J. Plewa, F. Baur, T. Jansen, T. Jüstel, S. Möller, Thermochromic Pigments, Thermochromic Coating, Process for their Preparation and their Use, DE 10 2014 018 464 A1
189. J. Honold, T. Hilgerink, S. Korte, F. Baur, T. Jüstel, Lichtemittierende Vorrichtung mit reduziertem Flicker, DE 10 2014 118 568 A1
190. T. Jüstel, S. Korte, S. Möller, N. Kratz, J. Werner, D. Rytz, Photo Catalyst, DE 10 2015 107 986 A1, WO 2016185042 A1
191. T. Jüstel, B. Malysa, S. Otto, U. Berlekamp, Irradiation Device for Cosmetic and Therapeutic Applications, EP 2015/000061.0
192. T. Jüstel, M. Müller, C. Suessemilch, H. Winkler, Mn⁴⁺ Activated Phosphor, DE 10 2015 015 355, WO 2017092849 A1
193. T. Jüstel, U. Berlekamp, Medical Irradiation Device and Use thereof, EP2015/003656.4
194. T. Jüstel, F. Baur, R. Petry, Europium or Samarium Doped Terbium Molybdate, EP 3 119 852 B1, US 2017/0107426 A1, WO 2015/139806 A1, TW 201542771 A, KR 20160133548 A, JP 2017519843 A, CN 106103651 A, SG 11201607767 WA
195. T. Jüstel, T. Jansen, Verfahren zur Rückgewinnung oder Anreicherung von Seltenerdmetallen, DE 10 2016 102 98 A1
196. T. Jüstel, U. Berlekamp, S. Otto, D. Enseling, B. Malysa, Medical Irradiation Device and Use thereof, EP 2016/000920.5, WO 2017/178601 A1
197. T. Jüstel, S. Möller, F. Baur, N. Kratz, J. Werner, M. Demirtas, J. Honold, T. Hilgerink, Phosphor Ceramic, DE 10 2015 110 189 A1, EP 2016/0741238, US 11015118 B2, KR 20187001912 A, CN 107801399 A, WO 2016/207380 A1
198. T. Jüstel, U. Berlekamp, Medical Irradiation Device and Use thereof, EP2016/165562.6
199. T. Jüstel, U. Berlekamp, S. Otto, U. Aßmus, B. Malysa, Topical Preparation Comprising a Luminescent Compound and Use Thereof, EP 2016/197324.3

200. T. Jüstel, R. Petry, I. Köhler, M. Rapphahn, T. Jansen, Mn⁴⁺ Activated Luminescent Material as Conversion Luminescent Material for Solid State Light Sources, EP 2016/16193525.9, WO 2018/069195 A1, JP 2019533629 A, CN 109996856 A, KR 20190068580 A, TW 201821593 A
201. T. Jüstel, M. Broxtermann, M. Laube, Fluorescent UV-emitting Material, DE 10 2017 103 965 A1
202. T. Jüstel, M. Müller, S. Espinoza, R.R. Andersson, M. Purschke, Sterilisation System, EP 2017/053960 A1, WO 2018/153437 A1
203. T. Jüstel, M. Müller, S. Espinoza, R.R. Andersson, M. Purschke, Magnetofluorescent Nanoparticles, EP 2017/056893 A1, WO 2018/171882 A1
204. T. Jüstel, F. Baur, I. Köhler, K. Sievert, R. Petry, Uranyl Sensitised Europium Luminophores, EP 2017/165624.2, WO 2018/185116 A3
205. T. Jüstel, T. Jansen, F. Baur, Rot-emittierende Leuchtstoffkeramik, DE 10 2017 120 681 A1
206. S. Fischer, F. Baur, M. Volhard, T. Jüstel, R. Petry, I. Köhler, K. Sievert, Chr. Hampel, Multi-Component Luminophores as Colour Converters for Solid State Light Sources, EP 2017/191579 A1, WO 2019/053242 A1
207. T. Jansen, T. Jüstel, R. Petry, I. Köhler, Mn-aktivierte Oxidhalogenide als Konversionsleuchtstoffe für LED-basierte Festkörperlichtquellen, EP 2018/162844 A1, EP 4047072 A1, WO 2019/179907 A1
208. M. Volhard, T. Jüstel, Beschichtete Photokatalysatoren, DE 10 2018 105 936 A1, WO 2019/175257 A1
209. D. Starick, L. Kulikovskiy, M. Paeschke, G. Haußmann, V. Anselm, B. Malysa, T. Jüstel, Smartphone verifizierbares, leuchtstoffbasiertes Sicherheitsmerkmal und Anordnung zur Verifizierung, DE 10 2018 109 141 A1, EP 3781408 B1, WO 2019/201877 A1, ES 2940565 T3
210. T. Jüstel, N. Braun, M. Broxtermann, A. Deitermann, C. Jung, A. Nietzsche, I. Robers, Verfahren zur Reduktion von Nitrat und Nitrit aus Lösungen, DE 10 2018 117 167 A1
211. T. Jüstel, M. Salvermoser, M. Broxtermann, J.-K. Keil, A Phosphor for a UV Emitting Device and a UV Generating Device Utilizing such a Phosphor, EP 2018/194253, WO 2020/053403 A1, US 2022/076940 A1
212. T. Jüstel, D. Böhnisch, M.A. Yilmaz, R. Petry, I. Köhler, Blau emittierende Leuchtstoffverbindungen, EP 2018/194401, WO 2020/053381 A1, TW 202024305 A
213. T. Jüstel, M. Salvermoser, M. Broxtermann, A Phosphor Combination for a UV Emitting Device and a UV Generating Device Utilizing such a Phosphor

- Combination, EP 2019/159694, EP 3931860A1, US 2022/0139692 A1, WO 2020/174067 A1, CN 113508451 A
214. D. Starick, R. Heise, O. Muth, V. Anselm, T. Jüstel, Sicherheitsmerkmal für ein Sicherheits- oder Wertdokument, mit mindestens einem Leuchtstoff, der im ultravioletten Spektralbereich anregbar ist und der im infraroten Spektralbereich emittiert, DE 10 2019 119 687 B4
215. T. Jüstel, S. Fischer, D. Böhnisch, S. Schulte, M. Hallack, Blue to UV-Converter Comprising Lanthanide Ions such as Pr³⁺ Activated Garnet and its Application for Surface Disinfection Purposes, EP 2019/202897.5, WO 2021/073914 A1, TW 202130785 A, JP 2022-521605, CN 114555758 A, US 20220403238 A1
216. T. Jüstel, S. Fischer, D. Böhnisch, S. Schulte, M. Hallack, Blue to UV-Converter Comprising Lanthanide Ions such as Pr³⁺ Activated and Optionally Gd³⁺ Co-Activated Silicates and its Application for Surface Disinfection Purposes, EP 2019/202910.6, WO 2021/073915 A1, CN 114555756 A, US 2022/0403239 A1
217. T. Jüstel, J.-N. Keil, Gelbes Farbpigment, DE 10 2020 123 443 A1
218. T. Jüstel, J.-N. Keil, H. Kätker, Konvertermaterial, DE 10 2020 125 776 A1
219. T. Jüstel, J.-N. Keil, H. Kätker, Filtermaterial, DE 10 2020 125 770 A1
220. T. Jüstel, F. Baur, H. Kätker, J. Thirase, D. Hönig, Leuchtstoffkeramik und lichtemittierende Vorrichtungen enthaltend die Leuchtstoffkeramik, DE 10 2020 133 604.7
221. T. Jüstel, M. Volhard, F. Baur, S. Espinoza, UV-B/UV-C emittierendes Material, DE 10 2021 101 095 A1
222. T. Jüstel, F. Baur, G. Öksüz, C. Junker, C. Schröder, UV-B Hautpflegeprodukt, DE 10 2021 109 376 A1
223. T. Jüstel, J.-N. Keil, J. Kappelhoff, Knochenimplantatsmaterial, DE 10 2021 110 336 A1
224. T. Jüstel, S. Fischer, S. Reetz, F. Schröder, M. Huth, J. Tschernjaew, S. Schulte, M. Hallack, Wasserbasierte härtbare Zusammensetzung zur Herstellung von Beschichtungen mit Leuchtstoffen, EP 21167981.6, EP 21167981.6, EP 4 074 785 A1, US 2022/0325176 A1, JP 2022 162987 A, CN 115197635 A
225. T. Jüstel, S. Fischer, S. Reetz, F. Schröder, M. Huth, J. Tschernjaew, S. Schulte, M. Hallack, Zusammensetzung zur Herstellung von Beschichtungen mit verbesserten Leuchtstoffen, EP 21167984.0, EP 4 074 784 A1, EP 4 0790814 A1, US 2022/0325177 A1, JP 2022 162 986 A, CN 115216171