# Rik Van Deun

## List of Publications by Citations



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|---|---|---|---|
| 197 papers | 6,654 citations | 47 h-index | 71 g-index |
| 209 ext. papers | 7,473 ext. citations | 6.1 avg, IF | 6.34 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 197 | Rare-Earth-Containing Magnetic Liquid Crystals. *Journal of the American Chemical Society*, **2000**, 122, 4335-4344 | 16.4 | 225 |
| 196 | Covalent Coupling of Luminescent Tris(2-thenoyltrifluoroacetonato)lanthanide(III) Complexes on a Merrifield Resin. *Chemistry of Materials*, **2005**, 17, 2148-2154 | 9.6 | 182 |
| 195 | Photostability of a highly luminescent europium beta-diketonate complex in imidazolium ionic liquids. *Chemical Communications*, **2005**, 4354-6 | 5.8 | 177 |
| 194 | Rare earth tungstate and molybdate compounds - from 0D to 3D architectures. *Chemical Society Reviews*, **2013**, 42, 8835-48 | 58.5 | 170 |
| 193 | Synthesis, crystal structures, and luminescence properties of carboxylate based rare-earth coordination polymers. *Inorganic Chemistry*, **2012**, 51, 11623-34 | 5.1 | 160 |
| 192 | Fully fluorinated imidodiphosphinate shells for visible- and NIR-emitting lanthanides: hitherto unexpected effects of sensitizer fluorination on lanthanide emission properties. *Chemistry - A European Journal*, **2007**, 13, 6308-20 | 4.8 | 143 |
| 191 | Spectroscopic properties of trivalent lanthanide ions in fluorophosphate glasses. *Journal of Non-Crystalline Solids*, **1998**, 238, 11-29 | 3.9 | 113 |
| 190 | Rare-earth quinolinates: infrared-emitting molecular materials with a rich structural chemistry. *Inorganic Chemistry*, **2004**, 43, 8461-9 | 5.1 | 113 |
| 189 | Flash Synthesis of CdSe/CdS Core-Shell Quantum Dots. *Chemistry of Materials*, **2014**, 26, 1154-1160 | 9.6 | 110 |
| 188 | Near-Infrared Luminescence of Lanthanide Calcein and Lanthanide Dipicolinate Complexes Doped into a Silica-PEG Hybrid Material. *Chemistry of Materials*, **2004**, 16, 1531-1535 | 9.6 | 108 |
| 187 | Near-infrared photoluminescence of lanthanide-doped liquid crystals. *Journal of Materials Chemistry*, **2003**, 13, 1520-1522 | | 99 |
| 186 | Speciation of uranyl complexes in ionic liquids by optical spectroscopy. *Inorganic Chemistry*, **2007**, 46, 11335-44 | 5.1 | 98 |
| 185 | Speciation of copper(II) complexes in an ionic liquid based on choline chloride and in choline chloride/water mixtures. *Inorganic Chemistry*, **2012**, 51, 4972-81 | 5.1 | 96 |
| 184 | Site occupancy and photoluminescence properties of a novel deep-red-emitting phosphor NaMgGdTeO6:Mn4+ with perovskite structure for w-LEDs. *Journal of Luminescence*, **2018**, 198, 155-162 | 3.8 | 89 |
| 183 | Simultaneously Excited Downshifting/Upconversion Luminescence from Lanthanide-Doped Core/Shell Fluoride Nanoparticles for Multimode Anticounterfeiting. *Advanced Functional Materials*, **2018**, 28, 1707365 | 15.6 | 86 |
| 182 | Uranyl complexes of carboxyl-functionalized ionic liquids. *Inorganic Chemistry*, **2010**, 49, 3351-60 | 5.1 | 82 |
| 181 | Hydrolytic cleavage of an RNA-model phosphodiester catalyzed by a highly negatively charged polyoxomolybdate [Mo7O24]6- cluster. *Journal of the American Chemical Society*, **2008**, 130, 17400-8 | 16.4 | 80 |

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| 180 | Bipyridine-Based Nanosized Metal□Organic Framework with Tunable Luminescence by a Postmodification with Eu(III): An Experimental and Theoretical Study. *Journal of Physical Chemistry C*, **2013**, 117, 11302-11310 | 3.8 | 79 |
| 179 | Long-lived near-infrared luminescent lanthanide complexes of imidodiphosphinate "shell" ligands. *Inorganic Chemistry*, **2005**, 44, 6140-2 | 5.1 | 78 |
| 178 | Speciation of rare-earth metal complexes in ionic liquids: a multiple-technique approach. *Chemistry - A European Journal*, **2009**, 15, 1449-61 | 4.8 | 76 |
| 177 | A novel deep red-emitting phosphor KMgLaTeO:Mn with high thermal stability and quantum yield for w-LEDs: structure, site occupancy and photoluminescence properties. *Dalton Transactions*, **2018**, 47, 2501-2505 | 4.3 | 75 |
| 176 | Judd□Ofelt intensity parameters of trivalent lanthanide ions in a NaPO3□BaF2 based fluorophosphate glass. *Journal of Alloys and Compounds*, **1999**, 283, 59-65 | 5.7 | 74 |
| 175 | Structure and Mesomorphism of Silver Alkanoates. *Chemistry of Materials*, **2004**, 16, 2021-2027 | 9.6 | 73 |
| 174 | A far-red-emitting NaMgLaTeO6:Mn4+ phosphor with perovskite structure for indoor plant growth. *Dyes and Pigments*, **2019**, 162, 214-221 | 4.6 | 72 |
| 173 | Photoluminescence and energy transfer properties of a novel molybdate KBaY(MoO):Ln (Ln = Tb, Eu, Sm, Tb/Eu, Tb/Sm) as a multi-color emitting phosphor for UV w-LEDs. *Dalton Transactions*, **2018**, 47, 6995-7004 | 4.3 | 71 |
| 172 | Visible light sensitisation of europium(III) luminescence in a 9-hydroxyphenal-1-one complex. *Chemical Communications*, **2005**, 590-2 | 5.8 | 66 |
| 171 | Strong erbium luminescence in the near-infrared telecommunication window. *Chemical Physics Letters*, **2004**, 397, 447-450 | 2.5 | 63 |
| 170 | Lanthanide □hameleon□Multistage Anti-Counterfeit Materials. *Advanced Functional Materials*, **2017**, 27, 1700258 | 15.6 | 62 |
| 169 | Enhanced luminescence in Ln□+-doped Y□WO□(Sm, Eu, Dy) 3D microstructures through Gd□+ codoping. *Inorganic Chemistry*, **2014**, 53, 9498-508 | 5.1 | 62 |
| 168 | Nano- and micro-sized rare-earth carbonates and their use as precursors and sacrificial templates for the synthesis of new innovative materials. *Chemical Society Reviews*, **2015**, 44, 2032-59 | 58.5 | 60 |
| 167 | BaLu6(Si2O7)2(Si3O10):Ce3+,Tb3+: A novel blue-green emission phosphor via energy transfer for UV LEDs. *Dyes and Pigments*, **2017**, 139, 701-707 | 4.6 | 58 |
| 166 | Near infrared electroluminescence from neodymium complex□doped polymer light emitting diodes. *Thin Solid Films*, **2006**, 497, 299-303 | 2.2 | 58 |
| 165 | Advances in tailoring luminescent rare-earth mixed inorganic materials. *Chemical Society Reviews*, **2018**, 47, 7225-7238 | 58.5 | 58 |
| 164 | Er-to-Yb and Pr-to-Yb energy transfer for highly efficient near-infrared cryogenic optical temperature sensing. *Nanoscale*, **2019**, 11, 833-837 | 7.7 | 57 |
| 163 | Syntheses, structures, properties and DFT study of hybrid inorganic-organic architectures constructed from trinuclear lanthanide frameworks and Keggin-type polyoxometalates. *Dalton Transactions*, **2014**, 43, 1906-16 | 4.3 | 55 |

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| 162 | Triggering White-Light Emission in a 2D Imine Covalent Organic Framework Through Lanthanide Augmentation. *ACS Applied Materials & Interfaces*, **2019**, 11, 27343-27352 | 9.5 | 54 |
| 161 | Speciation of Uranyl Nitrato Complexes in Acetonitrile and in the Ionic Liquid 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. *European Journal of Inorganic Chemistry*, **2007**, 2007, 5120-5126 | 2.3 | 54 |
| 160 | Halogen substitution as an efficient tool to increase the near-infrared photoluminescence intensity of erbium(III) quinolinates in non-deuterated DMSO. *Physical Chemistry Chemical Physics*, **2003**, 5, 2754-2757 | 3.6 | 54 |
| 159 | Site-Bi3+ and Eu3+ dual emissions in color-tunable Ca2Y8(SiO4)6O2:Bi3+, Eu3+ phosphors prepared via sol-gel synthesis for potentially ratiometric temperature sensing. *Journal of Alloys and Compounds*, **2019**, 787, 86-95 | 5.7 | 54 |
| 158 | Homogeneously Alloyed CdSe1−xSx Quantum Dots (0 ≤ x ≤ 1): An Efficient Synthesis for Full Optical Tunability. *Chemistry of Materials*, **2013**, 25, 2388-2390 | 9.6 | 52 |
| 157 | Study of the luminescence of tris(2-thenoyltrifluoroacetonato)lanthanide(III) complexes covalently linked to 1,10-phenanthroline-functionalized hybrid sol–gel glasses. *Journal of Luminescence*, **2005**, 114, 77-84 | 3.8 | 52 |
| 156 | Bright and stable CdSe/CdS@SiO2 nanoparticles suitable for long-term cell labeling. *ACS Applied Materials & Interfaces*, **2014**, 6, 11714-23 | 9.5 | 50 |
| 155 | Visible-light-sensitized near-infrared luminescence from rare-earth complexes of the 9-hydroxyphenalen-1-one ligand. *Inorganic Chemistry*, **2006**, 45, 10416-8 | 5.1 | 48 |
| 154 | Optical properties of -doped fluorophosphate glasses. *Journal of Physics Condensed Matter*, **1998**, 10, 7231-7241 | 1.8 | 48 |
| 153 | Influence of the lanthanide contraction on the transition temperatures of rare-earth containing metallomesogens with Schiff base ligands. *Chemical Physics Letters*, **1999**, 300, 509-514 | 2.5 | 48 |
| 152 | Towards magnetic liquid crystals. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **1999**, 357, 3063-3077 | 3 | 48 |
| 151 | Synthesis, modification, bioconjugation of silica coated fluorescent quantum dots and their application for mycotoxin detection. *Biosensors and Bioelectronics*, **2016**, 79, 476-81 | 11.8 | 47 |
| 150 | Narrow bandwidth red electroluminescence from solution-processed lanthanide-doped polymer thin films. *Thin Solid Films*, **2005**, 491, 264-269 | 2.2 | 47 |
| 149 | Highly Luminescent, Water-Soluble Lanthanide Fluorobenzoates: Syntheses, Structures and Photophysics, Part I: Lanthanide Pentafluorobenzoates. *Chemistry - A European Journal*, **2015**, 21, 17921-32 | 4.8 | 46 |
| 148 | Dopant and excitation wavelength dependent color-tunable white light-emitting Ln(3+):Y2WO6 materials (Ln(3+) = Sm, Eu, Tb, Dy). *Dalton Transactions*, **2015**, 44, 15022-30 | 4.3 | 44 |
| 147 | Eu3+/Sm3+-doped Na2BiMg2(VO4)3 from substitution of Ca2+ by Na+ and Bi3+ in Ca2NaMg2(VO4)3: Color-tunable luminescence via efficient energy transfer from (VO4)3- to Eu3+/Sm3+ ions. *Dyes and Pigments*, **2018**, 155, 258-264 | 4.6 | 44 |
| 146 | Synthesis, Structural Characterization, and Catalytic Performance of a Vanadium-Based Metal−Organic Framework (COMOC-3). *European Journal of Inorganic Chemistry*, **2012**, 2012, 2819-2827 | 2.3 | 44 |
| 145 | Species Distribution and Coordination of Uranyl Chloro Complexes in Acetonitrile. *Inorganic Chemistry*, **2008**, 47, 2987-2993 | 5.1 | 43 |

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| 144 | Lanthanide 9-anthracenate: solution processable emitters for efficient purely NIR emitting host-free OLEDs. *Journal of Materials Chemistry C*, **2016**, 4, 9848-9855 | 7.1 | 42 |
| 143 | Magnetic alignment study of rare-earth-containing liquid crystals. *Journal of Physical Chemistry B*, **2007**, 111, 13881-5 | 3.4 | 42 |
| 142 | Spectroscopic properties of trivalent samarium ions in glasses **1999**, | | 42 |
| 141 | Polyoxomolybdate promoted hydrolysis of a DNA-model phosphoester studied by NMR and EXAFS spectroscopy. *Inorganic Chemistry*, **2011**, 50, 11552-60 | 5.1 | 41 |
| 140 | Probing the magnetic anisotropy of lanthanide-containing metallomesogens by luminescence spectroscopy. *ChemPhysChem*, **2001**, 2, 680-3 | 3.2 | 41 |
| 139 | Photoluminescence, Unconventional-Range Temperature Sensing, and Efficient Catalytic Activities of Lanthanide Metal□Organic Frameworks. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1577-1588 | 2.3 | 40 |
| 138 | Optical properties of Nd3+-doped fluorophosphate glasses. *Journal of Alloys and Compounds*, **1998**, 275-277, 455-460 | 5.7 | 40 |
| 137 | Photoluminescence properties and crystal field analysis of a novel red-emitting phosphor K 2 BaGe 8 O 18 :Mn 4+. *Dyes and Pigments*, **2017**, 142, 69-76 | 4.6 | 39 |
| 136 | A fluorescent alternative to the synthetic strigolactone GR24. *Molecular Plant*, **2013**, 6, 100-12 | 14.4 | 39 |
| 135 | Pharmacokinetic and in vivo evaluation of a self-assembled gadolinium(III)-iron(II) contrast agent with high relaxivity. *Contrast Media and Molecular Imaging*, **2006**, 1, 267-78 | 3.2 | 37 |
| 134 | Lanthanide complexes with aromatic o-phosphorylated ligands: synthesis, structure elucidation and photophysical properties. *Dalton Transactions*, **2014**, 43, 3121-36 | 4.3 | 36 |
| 133 | Anisotropic molecular magnetic materials based on liquid-crystalline lanthanide complexes. *Materials Science and Engineering C*, **2001**, 18, 247-254 | 8.3 | 36 |
| 132 | Spectroscopic behaviour of lanthanide(III) coordination compounds with Schiff base ligands. *Physical Chemistry Chemical Physics*, **2000**, 2, 3753-3757 | 3.6 | 35 |
| 131 | Structure of [UO2Cl4]2- in acetonitrile. *Inorganic Chemistry*, **2005**, 44, 7705-7 | 5.1 | 34 |
| 130 | Layered exfoliable crystalline materials based on Sm-, Eu- and Eu/Gd-2-phenylsuccinate frameworks. Crystal structure, topology and luminescence properties. *Dalton Transactions*, **2015**, 44, 3417-29 | 4.3 | 31 |
| 129 | Liquid-crystalline azines formed by the rare-earth promoted decomposition of hydrazide □abbe□ ligands: structural and thermal properties. *Journal of Materials Chemistry*, **2003**, 13, 1639-1645 | | 31 |
| 128 | Dopant and excitation wavelength dependent color tunability in Dy:YVO and Dy/Eu:YVO microparticles towards white light emission. *Dalton Transactions*, **2016**, 45, 16231-16239 | 4.3 | 31 |
| 127 | Novel tetrakis lanthanide □diketonate complexes: Structural study, luminescence properties and temperature sensing. *Journal of Luminescence*, **2019**, 213, 343-355 | 3.8 | 30 |

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| 126 | Excitation- and Emission-Wavelength-Based Multiplex Spectroscopy Using Red-Absorbing Near-Infrared-Emitting Lanthanide Complexes. *Journal of the American Chemical Society*, **2018**, 140, 10975-10979 | 16.4 | 30 |
| 125 | Grafting of a Eu-tfac complex on to a Tb-metal organic framework for use as a ratiometric thermometer. *Dalton Transactions*, **2017**, 46, 12717-12723 | 4.3 | 30 |
| 124 | Organo-lanthanide complexes as luminescent dopants in polymer waveguides fabricated by hot embossing. *Optical Materials*, **2007**, 29, 1798-1808 | 3.3 | 30 |
| 123 | Synthesis of a neodymium-quinolate complex for near-infrared electroluminescence applications. *Thin Solid Films*, **2008**, 516, 5098-5102 | 2.2 | 30 |
| 122 | Alkali-Metal Salts of Aromatic Carboxylic Acids: Liquid Crystals without Flexible Chains. *European Journal of Inorganic Chemistry*, **2005**, 2005, 563-571 | 2.3 | 30 |
| 121 | Mesomorphism of lanthanide-containing Schiff's base complexes with dodecyl sulphate counterions. *Liquid Crystals*, **2001**, 28, 621-627 | 2.3 | 30 |
| 120 | A new series of trivalent lanthanide (Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy) coordination polymers with a 1,2-cyclohexanedicarboxylate ligand: synthesis, crystal structure, luminescence and catalytic properties. *CrystEngComm*, **2016**, 18, 3594-3605 | 3.3 | 30 |
| 119 | Strong upconversion emission in CsPbBr3 perovskite quantum dots through efficient BaYF5:Yb,Ln sensitization. *Journal of Materials Chemistry C*, **2019**, 7, 2014-2021 | 7.1 | 29 |
| 118 | Mutual energy transfer luminescent properties in novel CsGd(MoO):Yb,Er/Ho phosphors for solid-state lighting and solar cells. *Physical Chemistry Chemical Physics*, **2019**, 21, 4746-4754 | 3.6 | 29 |
| 117 | The relationship of monodentate and bidentate coordinated uranium(VI) sulfate in aqueous solution. *Radiochimica Acta*, **2008**, 96, | 1.9 | 29 |
| 116 | Rare-Earth Nitroquinolinates: Visible-Light-Sensitizable Near-Infrared Emitters in Aqueous Solution. *European Journal of Inorganic Chemistry*, **2007**, 2007, 302-305 | 2.3 | 29 |
| 115 | Remarkable high efficiency of red emitters using Eu(iii) ternary complexes. *Chemical Communications*, **2018**, 54, 5221-5224 | 5.8 | 28 |
| 114 | TeSen tool for determining thermometric parameters in ratiometric optical thermometry. *Sensors and Actuators B: Chemical*, **2018**, 273, 696-702 | 8.5 | 28 |
| 113 | Realizing a novel dazzling far-red-emitting phosphor NaLaCaTeO:Mn with high quantum yield and luminescence thermal stability via the ionic couple substitution of Na + La for 2Ca in CaTeO:Mn for indoor plant cultivation LEDs. *Chemical Communications*, **2019**, 55, 10697-10700 | 5.8 | 28 |
| 112 | A Visible-Light-Harvesting Covalent Organic Framework Bearing Single Nickel Sites as a Highly Efficient Sulfur-Carbon Cross-Coupling Dual Catalyst. *Angewandte Chemie - International Edition*, **2021**, 60, 10820-10827 | 16.4 | 28 |
| 111 | Cryogenic luminescent thermometers based on multinuclear Eu/Tb mixed lanthanide polyoxometalates. *Dalton Transactions*, **2017**, 46, 5781-5785 | 4.3 | 27 |
| 110 | Optical thermometry of MoS2:Eu3+ 2D luminescent nanosheets. *Journal of Materials Chemistry C*, **2016**, 4, 9937-9941 | 7.1 | 27 |
| 109 | Optical properties of planar polymer waveguides doped with organo-lanthanide complexes. *Optical Materials*, **2007**, 29, 1821-1830 | 3.3 | 26 |

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| 108 | Temperature dependent NIR emitting lanthanide-PMO/silica hybrid materials. *Dalton Transactions*, **2017**, 46, 7878-7887 | 4.3 | 25 |
| 107 | Eu3+@PMO: synthesis, characterization and luminescence properties. *Journal of Materials Chemistry C*, **2015**, 3, 2909-2917 | 7.1 | 25 |
| 106 | Influence of Y(3+), Gd(3+), and Lu(3+) co-doping on the phase and luminescence properties of monoclinic Eu:LaVO4 particles. *Dalton Transactions*, **2015**, 44, 18418-26 | 4.3 | 25 |
| 105 | Effect of 2,4,6-tri(2-pyridyl)-1,3,5-triazine on visible and NIR luminescence of lanthanide tris(trifluoroacetylacetonates). *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, 347, 116-129 | 4.7 | 24 |
| 104 | The luminescence properties of three tetrakis dibenzoylmethane europium(III) complexes with different counter ions. *Journal of Alloys and Compounds*, **2008**, 451, 215-219 | 5.7 | 24 |
| 103 | Novel Intense Emission-Tunable Li1.5La1.5WO6:Mn4+,Nd3+,Yb3+ Material with Good Luminescence Thermal Stability for Potential Applications in c-Si Solar Cells and Plant-Cultivation Far-Red-NIR LEDs. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16284-16294 | 8.3 | 23 |
| 102 | Low-Temperature Solid-State Synthesis and Upconversion Luminescence Properties in (Na/Li)Bi(MoO):Yb,Er and Color Tuning in (Na/Li)Bi(MoO):Yb,Ho,Ce Phosphors. *Inorganic Chemistry*, **2019**, 58, 6821-6831 | 5.1 | 23 |
| 101 | Boosting the Er3+ 1.5 μm Luminescence in CsPbCl3 Perovskite Nanocrystals for Photonic Devices Operating at Telecommunication Wavelengths. *ACS Applied Nano Materials*, **2020**, 3, 4699-4707 | 5.6 | 23 |
| 100 | Synthesis and luminescent properties of prospective Ce3+ doped silicate garnet phosphors for white LED converters. *Journal of Luminescence*, **2017**, 192, 328-336 | 3.8 | 23 |
| 99 | Amine-containing (nano-) Periodic Mesoporous Organosilica and its application in catalysis, sorption and luminescence. *Microporous and Mesoporous Materials*, **2020**, 291, 109687 | 5.3 | 23 |
| 98 | Low-Percentage Ln Doping in a Tetranuclear Lanthanum Polyoxometalate Assembled from [MoO] Polyanions Yielding Visible and Near-Infrared Luminescence. *Inorganic Chemistry*, **2017**, 56, 3190-3200 | 5.1 | 22 |
| 97 | Mechanochemically synthesized crystalline luminescent 2D coordination polymers of La3+ and Ce3+, doped with Sm3+, Eu3+, Tb3+, and Dy3+: synthesis, crystal structures and luminescence. *CrystEngComm*, **2016**, 18, 6738-6747 | 3.3 | 21 |
| 96 | Adducts of Schiff Bases with Tris(β-diketonato)lanthanide(III) Complexes: Structure and Liquid-Crystalline Behaviour. *European Journal of Inorganic Chemistry*, **2003**, 2003, 3028-3033 | 2.3 | 21 |
| 95 | Green and blue emitting 3D structured Tb:Ce2(WO4)3 and Tb:Ce10W22O81 micromaterials. *Dalton Transactions*, **2015**, 44, 10237-44 | 4.3 | 20 |
| 94 | Highly photoluminescent europium tetraphenylimidodiphosphinate ternary complexes with heteroaromatic co-ligands. Solution and solid state studies. *Journal of Luminescence*, **2016**, 170, 411-419 | 3.8 | 20 |
| 93 | OLED thin film fabrication from poorly soluble terbium o -phenoxybenzoate through soluble mixed-ligand complexes. *Organic Electronics*, **2016**, 28, 319-329 | 3.5 | 20 |
| 92 | White Light Emission Properties of Defect Engineered Metal−Organic Frameworks by Encapsulation of Eu3+ and Tb3+. *Crystal Growth and Design*, **2019**, 19, 6339-6350 | 3.5 | 20 |
| 91 | Tuning the architecture and properties of microstructured yttrium tungstate oxide hydroxide and lanthanum tungstate. *Dalton Transactions*, **2013**, 42, 5471-9 | 4.3 | 20 |

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| 90 | Rare-earth complexes of mesomorphic Schiff's base ligands. *Liquid Crystals*, **2001**, 28, 279-285 | 2.3 | 20 |
| 89 | Enhancing the energy transfer from Mn4+ to Yb3+ via a Nd3+ bridge role in Ca3La2W2O12:Mn4+,Nd3+,Yb3+ phosphors for spectral conversion of c-Si solar cells. *Dyes and Pigments*, **2019**, 162, 990-997 | 4.6 | 20 |
| 88 | Ca3La2Te2O12:Mn4+,Nd3+,Yb3+: an efficient thermally-stable UV/visible/far red/NIR broadband spectral converter for c-Si solar cells and plant-growth LEDs. *Materials Chemistry Frontiers*, **2019**, 3, 403-413 | 7.8 | 19 |
| 87 | Mesomorphic lanthanide complexes with azomethine ligands. *Journal of Alloys and Compounds*, **2000**, 303-304, 146-150 | 5.7 | 19 |
| 86 | Vibrational Quenching in Near-Infrared Emitting Lanthanide Complexes: A Quantitative Experimental Study and Novel Insights. *Chemistry - A European Journal*, **2019**, 25, 15944-15956 | 4.8 | 18 |
| 85 | Light Conversion Control in NIR-Emissive Optical Materials Based on Heterolanthanide ErxYb3−x Quinolinolato Molecular Components. *Chemistry of Materials*, **2015**, 27, 4082-4092 | 9.6 | 18 |
| 84 | Easily Accessible Rare-Earth-Containing Phosphonium Room-Temperature Ionic Liquids: EXAFS, Luminescence, and Magnetic Properties. *Journal of Physical Chemistry B*, **2016**, 120, 5301-11 | 3.4 | 18 |
| 83 | Enhanced active P doping by using high order Ge precursors leading to intense photoluminescence. *Thin Solid Films*, **2016**, 602, 56-59 | 2.2 | 18 |
| 82 | Synthesis and luminescence properties of a novel dazzling red-emitting phosphor NaSrSbO:Mn for UV/n-UV w-LEDs. *Dalton Transactions*, **2019**, 48, 3187-3192 | 4.3 | 18 |
| 81 | Nano- and microsized Eu(3+) and Tb(3+)-doped lanthanide hydroxycarbonates and oxycarbonates. The influence of glucose and fructose as stabilizing ligands. *Dalton Transactions*, **2013**, 42, 4639-49 | 4.3 | 18 |
| 80 | Discovery of (S)-3'-hydroxyblebbistatin and (S)-3'-aminoblebbistatin: polar myosin II inhibitors with superior research tool properties. *Organic and Biomolecular Chemistry*, **2017**, 15, 2104-2118 | 3.9 | 17 |
| 79 | Flexible Ligand-Based Lanthanide Three-Dimensional Metal–Organic Frameworks with Tunable Solid-State Photoluminescence and OH-Solvent-Sensing Properties. *European Journal of Inorganic Chemistry*, **2017**, 2017, 2321-2331 | 2.3 | 17 |
| 78 | A novel red emitting material based on polyoxometalate@periodic mesoporous organosilica. *Microporous and Mesoporous Materials*, **2016**, 234, 248-256 | 5.3 | 17 |
| 77 | Effectively realizing broadband spectral conversion of UV/visible to near-infrared emission in (Na,K)Mg(La,Gd)TeO6:Mn4+,Nd3+,Yb3+ materials for c-Si solar cells via efficient energy transfer. *Journal of Materials Chemistry C*, **2018**, 6, 7302-7310 | 7.1 | 17 |
| 76 | Lanthanide containing Schiff's base complexes with chloride counter-ions: mesomorphic properties. *Materials Science and Engineering C*, **2001**, 18, 211-215 | 8.3 | 17 |
| 75 | Mesomorphism of lanthanide-containing Schiff's base complexes with chloride counterions. *Liquid Crystals*, **2002**, 29, 1209-1216 | 2.3 | 17 |
| 74 | Designing Photochromic Materials with Large Luminescence Modulation and Strong Photochromic Efficiency for Dual-Mode Rewritable Optical Storage. *Advanced Optical Materials*, **2021**, 9, 2100669 | 8.1 | 17 |
| 73 | Synthesis and up-conversion luminescence properties of a novel Yb3+, Er3+ co-doped Ca5Mg4(VO4)6 phosphor. *Journal of Alloys and Compounds*, **2018**, 737, 767-773 | 5.7 | 16 |

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| 72 | Exploring physical and chemical properties in new multifunctional indium-, bismuth-, and zinc-based 1D and 2D coordination polymers. *Dalton Transactions*, **2018**, 47, 1808-1818 | 4.3 | 16 |
| 71 | Functionalized periodic mesoporous organosilicas: from metal free catalysis to sensing. *Journal of Materials Chemistry A*, **2019**, 7, 14060-14069 | 13 | 15 |
| 70 | Obtaining Efficiently Tunable Red Emission in Ca3-□Ln□WO6:Mn4+ (Ln = La, Gd, Y, Lu, □ = 0.1) Phosphors Derived from Nearly Nonluminescent Ca3WO6:Mn4+ via Ionic Substitution Engineering for Solid-State Lighting. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7256-7261 | 8.3 | 15 |
| 69 | Luminescence of Ce3+ multicenters in Ca2+-Mg2+-Si4+ based garnet phosphors. *Journal of Luminescence*, **2018**, 199, 245-250 | 3.8 | 15 |
| 68 | Chromium(III) in deep eutectic solvents: towards a sustainable chromium(VI)-free steel plating process. *Green Chemistry*, **2019**, 21, 3637-3650 | 10 | 14 |
| 67 | Nanothermometers based on lanthanide incorporated Periodic Mesoporous Organosilica. *Journal of Materials Chemistry C*, **2019**, 7, 4222-4229 | 7.1 | 14 |
| 66 | Photoluminescence investigation of Cu2ZnSnS4 thin film solar cells. *Thin Solid Films*, **2015**, 582, 146-150 | 2.2 | 14 |
| 65 | Color Tuning from Greenish-Yellow to Orange-Red in Thermal-Stable KBaY(MoO4)3:Dy3+, Eu3+ Phosphors via Energy Transfer for UV W-LEDs. *ACS Applied Electronic Materials*, **2020**, 2, 1735-1744 | 4 | 14 |
| 64 | Achieving Efficient Red-Emitting Sr2Ca1□Ln□WO6:Mn4+ (Ln = La, Gd, Y, Lu, □ = 0.10) Phosphors with Extraordinary Luminescence Thermal Stability for Potential UV-LEDs Application via Facile Ion Substitution in Luminescence-Ignorable Sr2CaWO6:Mn4+ **2020**, 2, 771-778 | | 14 |
| 63 | Lanthanide complexes of Schiff base ligands containing three aromatic rings: synthesis and thermal behaviour. *Materials Science and Engineering C*, **2001**, 18, 217-221 | 8.3 | 14 |
| 62 | Multidoped Ln gadolinium dioxycarbonates as tunable white light emitting phosphors. *Dalton Transactions*, **2017**, 46, 2785-2792 | 4.3 | 13 |
| 61 | Eu, Tb- and Er, Yb-Doped □MoO Nanosheets for Optical Luminescent Thermometry. *Nanomaterials*, **2019**, 9, | 5.4 | 13 |
| 60 | Sensing properties, energy transfer mechanism and tuneable particle size processing of luminescent two-dimensional rare earth coordination networks. *Journal of Materials Chemistry C*, **2017**, 5, 12409-12421 | 7.1 | 12 |
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