Andries Meijerink

List of Publications by Year
in descending order

425 papers	34,012 citations	2963 93 h-index	4870 168 g-index
440 all docs	440 docs citations	440 times ranked	22635 citing authors

#	Article	IF	Citations
1	Temperature Quenching of Yellow Ce³⁺ Luminescence in YAG:Ce. Chemistry of Materials, 2009, 21, 2077-2084.	3.2	1,227
2	Visible Quantum Cutting in LiGdF4:Eu3+Through Downconversion. Science, 1999, 283, 663-666.	6.0	897
3	Ce³⁺-Doped garnet phosphors: composition modification, luminescence properties and applications. Chemical Society Reviews, 2017, 46, 275-299.	18.7	838
4	The Kinetics of the Radiative and Nonradiative Processes in Nanocrystalline ZnO Particles upon Photoexcitation. Journal of Physical Chemistry B, 2000, 104, 1715-1723.	1.2	831
5	Lanthanide ions as spectral converters for solar cells. Physical Chemistry Chemical Physics, 2009, 11, 11081.	1.3	813
6	Color Point Tuning for (Sr,Ca,Ba)Si₂O₂N₂:Eu²⁺ for White Light LEDs. Chemistry of Materials, 2009, 21, 316-325.	3.2	549
7	Quantum cutting by cooperative energy transfer inYbxY1âˆ’xPO4:Tb3+. Physical Review B, 2005, 71, .	1.1	537
8	Identification of the transition responsible for the visible emission in ZnO using quantum size effects. Journal of Luminescence, 2000, 90, 123-128.	1.5	502
9	Influence of Thiol Capping on the Exciton Luminescence and Decay Kinetics of CdTe and CdSe Quantum Dots. Journal of Physical Chemistry B, 2004, 108, 17393-17397.	1.2	474
10	Luminescent Solar Concentrators - A review of recent results. Optics Express, 2008, 16, 21773.	1.7	442
11	Nearâ€Infrared Quantum Cutting for Photovoltaics. Advanced Materials, 2009, 21, 3073-3077.	11.1	435
12	The luminescence of nanocrystalline ZnO particles: the mechanism of the ultraviolet and visible emission. Journal of Luminescence, 2000, 87-89, 454-456.	1.5	409
13	Critical Red Components for Next-Generation White LEDs. Journal of Physical Chemistry Letters, 2016, 7, 495-503.	2.1	401
14	Long-livedMn2+emission in nanocrystallineZnS:Mn2+. Physical Review B, 1998, 58, R15997-R16000.	1.1	393
15	Photooxidation and Photobleaching of Single CdSe/ZnS Quantum Dots Probed by Room-Temperature Time-Resolved Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 8281-8284.	1.2	368
16	Single-Step Synthesis to Control the Photoluminescence Quantum Yield and Size Dispersion of CdSe Nanocrystals. Journal of Physical Chemistry B, 2003, 107, 489-496.	1.2	346
17	Upconverter solar cells: materials and applications. Energy and Environmental Science, 2011, 4, 4835.	15.6	344
18	Charge transfer luminescence of Yb3+. Journal of Luminescence, 2000, 91, 177-193.	1.5	337

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19	Quenching of the red Mn4+ luminescence in Mn4+-doped fluoride LED phosphors. Light: Science and Applications, 2018, 7, 8.	7.7	334
20	Synthesis and Photoluminescence of Nanocrystalline ZnS:Mn2+. Nano Letters, 2001, 1, 429-433.	4.5	327
21	High-Temperature Luminescence Quenching of Colloidal Quantum Dots. ACS Nano, 2012, 6, 9058-9067.	7.3	310
22	Size- and temperature-dependence of exciton lifetimes in CdSe quantum dots. Physical Review B, 2006, 74, .	1.1	309
23	On the Incorporation Mechanism of Hydrophobic Quantum Dots in Silica Spheres by a Reverse Microemulsion Method. Chemistry of Materials, 2008, 20, 2503-2512.	3.2	297
24	4fnâ†'4fnâˆ'15dtransitions of the light lanthanides:â€ƒExperiment and theory. Physical Review B, 2002, 65, .	1.1	278
25	Insight into the Thermal Quenching Mechanism for Y₃Al₅O₁₂:Ce³⁺ through Thermoluminescence Excitation Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 25003-25008.	1.5	278
26	Vacuum-ultraviolet spectroscopy and quantum cutting forGd3+inLiYF4. Physical Review B, 1997, 56, 13841-13848.	1.1	263
27	Direct Band Gap Wurtzite Gallium Phosphide Nanowires. Nano Letters, 2013, 13, 1559-1563.	4.5	262
28	Blueing, Bleaching, and Blinking of Single CdSe/ZnS Quantum Dots. ChemPhysChem, 2002, 3, 871-879.	1.0	261
29	Quenching Pathways in NaYF₄:Er³⁺,Yb³⁺ Upconversion Nanocrystals. ACS Nano, 2018, 12, 4812-4823.	7.3	244
30	Enhanced near-infrared response of a-Si:H solar cells with Î²-NaYF4:Yb3+ (18%), Er3+ (2%) upconversion phosphors. Solar Energy Materials and Solar Cells, 2010, 94, 2395-2398.	3.0	240
31	Improved Biocompatibility and Pharmacokinetics of Silica Nanoparticles by Means of a Lipid Coating: A Multimodality Investigation. Nano Letters, 2008, 8, 2517-2525.	4.5	229
32	Electronic Coupling and Exciton Energy Transfer in CdTe Quantum-Dot Molecules. Journal of the American Chemical Society, 2006, 128, 10436-10441.	6.6	226
33	Resolving the ambiguity in the relation between Stokes shift and Huangâ€"Rhys parameter. Physical Chemistry Chemical Physics, 2015, 17, 16959-16969.	1.3	226
34	Novel Ring Resonator-Based Integrated Photonic Beamformer for Broadband Phased Array Receive Antennasâ€"Part I: Design and Performance Analysis. Journal of Lightwave Technology, 2010, 28, 3-18.	2.7	225
35	On the Incorporation of Trivalent Rare Earth Ions in IIâˆ'VI Semiconductor Nanocrystals. Chemistry of Materials, 2002, 14, 1121-1126.	3.2	220
36	Luminescence properties of SrSi2O2N2 doped with divalent rare earth ions. Journal of Luminescence, 2006, 121, 441-449.	1.5	213

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37	Novel Ring Resonator-Based Integrated Photonic Beamformer for Broadband Phased Array Receive Antennasâ€"Part II: Experimental Prototype. Journal of Lightwave Technology, 2010, 28, 19-31.	2.7	211
38	Luminescence of nanocrystalline ZnSe:Mn2+. Physical Chemistry Chemical Physics, 2000, 2, 5445-5448.	1.3	207
39	4fnâ†'4fnâ^'15dtransitions of the heavy lanthanides:â€ƒExperiment and theory. Physical Review B, 2002, 65, .	1.1	205
40	Energy transfer with semiconductor nanocrystals. Journal of Materials Chemistry, 2009, 19, 1208-1221.	6.7	204
41	Long wavelength Ce3+ emission in Yâ€"Siâ€"Oâ€"N materials. Journal of Alloys and Compounds, 1998, 268, 272-277.	2.8	199
42	Downconversion for solar cells in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YF</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msul xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Yb</mml:mtext></mml:mrow><mml:. Physical Review B, 2010, 81, .	1.1	191
43	Temperature dependent Cr3+ photoluminescence in garnets of the type X3Sc2Ga3O12 (Xâ€‰=â€‰Lu, Y, Gd, La). Journal of Luminescence, 2018, 202, 523-531.	1.5	190
44	Downconversion for solar cells in NaYF4:Er,Yb. Journal of Applied Physics, 2009, 106, .	1.1	189
45	The influence of particle size on the luminescence quantum efficiency of nanocrystalline ZnO particles. Journal of Luminescence, 2001, 92, 323-328.	1.5	186
46	Luminescence and Luminescence Quenching in Gd₃(Ga,Al)₅O₁₂ Scintillators Doped with Ce³⁺. Journal of Physical Chemistry A, 2013, 117, 2479-2484.	1.1	186
47	NaYF₄:Er³⁺,Yb³⁺/SiO₂ Core/Shell Upconverting Nanocrystals for Luminescence Thermometry up to 900 K. Journal of Physical Chemistry C, 2017, 121, 3503-3510.	1.5	185
48	Upconversion in solar cells. Nanoscale Research Letters, 2013, 8, 81.	3.1	184
49	Highly Efficient IR to NIR Upconversion in Gd₂O₂S: Er³⁺ for Photovoltaic Applications. Chemistry of Materials, 2013, 25, 1912-1921.	3.2	183
50	Luminescence of nanocrystalline ZnS:Cu2+. Journal of Luminescence, 2002, 99, 325-334.	1.5	182
51	Efficient visible to infrared quantum cutting through downconversion with the Er3+â€"Yb3+ couple in Cs3Y2Br9. Applied Physics Letters, 2010, 96, .	1.5	177
52	Enhancing solar cell efficiency by using spectral converters. Solar Energy Materials and Solar Cells, 2005, 87, 395-409.	3.0	169
53	A Theoretical Framework for Ratiometric Single Ion Luminescent Thermometersâ€"Thermodynamic and Kinetic Guidelines for Optimized Performance. Advanced Theory and Simulations, 2020, 3, 2000176.	1.3	169
54	Mixed-Lanthanoid Metalâ€"Organic Framework for Ratiometric Cryogenic Temperature Sensing. Inorganic Chemistry, 2015, 54, 11323-11329.	1.9	165

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55	Visible quantum cutting in Eu3+-doped gadolinium fluorides via downconversion. Journal of Luminescence, 1999, 82, 93-104.	1.5	161
56	Luminescence Quantum Efficiency of Nanocrystalline ZnS:Mn2+. 1. Surface Passivation and Mn2+Concentration. Journal of Physical Chemistry B, 2001, 105, 10197-10202.	1.2	158
57	Spectroscopy and calculations for4fNâ†’4fNâˆ’15dtransitions of lanthanide ions inLiYF4. Physical Review B, 2000, 62, 14744-14749.	1.1	154
58	Efficient and Stable Luminescence from Mn²⁺ in Core and Coreâ€“Isocrystalline Shell CsPbCl₃ Perovskite Nanocrystals. Chemistry of Materials, 2017, 29, 4265-4272.	3.2	154
59	Non-radiative relaxation processes of the Pr3+ ion in solids. Journal of Physics and Chemistry of Solids, 1995, 56, 673-685.	1.9	152
60	Exciton Storage by Mn²⁺ in Colloidal Mn²⁺-Doped CdSe Quantum Dots. Nano Letters, 2008, 8, 2949-2953.	4.5	150
61	Luminescence Quantum Efficiency of Nanocrystalline ZnS:Mn2+. 2. Enhancement by UV Irradiation. Journal of Physical Chemistry B, 2001, 105, 10203-10209.	1.2	147
62	Eu²⁺luminescence in strontium aluminates. Physical Chemistry Chemical Physics, 2015, 17, 15236-15249.	1.3	147
63	Luminescence properties of Eu2+-activated alkaline earth haloborates. Journal of Luminescence, 1989, 43, 283-289.	1.5	146
64	Size-Selective Photoetching of Nanocrystalline Semiconductor Particles. Chemistry of Materials, 1998, 10, 3513-3522.	3.2	146
65	Extending Dieke's diagram. Journal of Luminescence, 2000, 87-89, 1002-1004.	1.5	146
66	Luminescence Temperature Antiquenching of Water-Soluble CdTe Quantum Dots:Â Role of the Solvent. Journal of the American Chemical Society, 2004, 126, 10397-10402.	6.6	143
67	Paramagnetic Lipid-Coated Silica Nanoparticles with a Fluorescent Quantum Dot Core: A New Contrast Agent Platform for Multimodality Imaging. Bioconjugate Chemistry, 2008, 19, 2471-2479.	1.8	143
68	A complete energy level diagram for all trivalent lanthanide ions. Journal of Solid State Chemistry, 2005, 178, 448-453.	1.4	141
69	Influence of Adsorbed Oxygen on the Emission Properties of Nanocrystalline ZnO Particles. Journal of Physical Chemistry B, 2000, 104, 4355-4360.	1.2	137
70	Temperature Antiquenching of the Luminescence from Capped CdSe Quantum Dots. Angewandte Chemie - International Edition, 2004, 43, 3029-3033.	7.2	135
71	The Effect of Temperature and Dot Size on the Spectral Properties of Colloidal InP/ZnS Coreâˆ’Shell Quantum Dots. ACS Nano, 2009, 3, 2539-2546.	7.3	135
72	Delayed Exciton Emission and Its Relation to Blinking in CdSe Quantum Dots. Nano Letters, 2015, 15, 7718-7725.	4.5	130

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73	Unusual Bismuth luminescence in Strontium Tetraborate (SrB4O7:Bi). Journal of Physics and Chemistry of Solids, 1994, 55, 171-174.	1.9	126
74	Visible quantum cutting via downconversion in LiGdF4:Er3+, Tb3+ upon Er3+ 4f11â†’4f105d excitation. Journal of Luminescence, 2000, 90, 111-122.	1.5	126
75	Spin-allowed and spin-forbidden4fnâ†”4fnâˆ’15dtransitions for heavy lanthanides in fluoride hosts. Physical Review B, 1999, 60, 10820-10830.	1.1	125
76	Local-field effects on the spontaneous emission rate of CdTe and CdSe quantum dots in dielectric media. Journal of Chemical Physics, 2004, 121, 4310-4315.	1.2	123
77	Investigating supramolecular systems using FÃ¶rster resonance energy transfer. Chemical Society Reviews, 2018, 47, 7027-7044.	18.7	118
78	Towards upconversion for amorphous silicon solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 1919-1922.	3.0	117
79			

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91	Concentration Quenching in Upconversion Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 26298-26306.	1.5	99
92	Luminescence and Energy Transfer in Lu₃Al₅O₁₂ Scintillators Co-Doped with Ce³⁺ and Tb³⁺. Journal of Physical Chemistry A, 2012, 116, 8464-8474.	1.1	98
93	Temperature dependent luminescence Cr3+-doped GdAl3(BO3)4 and YAl3(BO3)4. Journal of Luminescence, 2016, 171, 246-253.	1.5	97
94	Tuning Excitonâ€“Mn²⁺ Energy Transfer in Mixed Halide Perovskite Nanocrystals. Chemistry of Materials, 2018, 30, 5346-5352.	3.2	97
95	Photostimulated luminescence and thermally stimulated luminescence of Y2SiO5-Ce, Sm. Journal Physics D: Applied Physics, 1991, 24, 997-1002.	1.3	94
96	Luminescence and growth of CdTe quantum dots and clusters. Physical Chemistry Chemical Physics, 2003, 5, 1253-1258.	1.3	94
97	Host composition dependent tunable multicolor emission in the single-phase Ba2(Ln1â^'zTbz)(BO3)2Cl:Eu phosphors. Dalton Transactions, 2013, 42, 6327.	1.6	94
98	Making Nd3+ a Sensitive Luminescent Thermometer for Physiological Temperaturesâ€"An Account of Pitfalls in Boltzmann Thermometry. Nanomaterials, 2020, 10, 543.	1.9	94
99	On the influence of calcium substitution to the optical properties of Cr3+ doped SrSc2O4. Journal of Luminescence, 2017, 190, 234-241.	1.5	93
100	In Situ Luminescence Thermometry To Locally Measure Temperature Gradients during Catalytic Reactions. ACS Catalysis, 2018, 8, 2397-2401.	5.5	91
101	Photoluminescence, thermoluminescence and EPR studies on Zn4B6O13. Journal of Physics Condensed Matter, 1990, 2, 6303-6313.	0.7	90
102	Luminescence Temperature Quenching for Ce³⁺and Pr³⁺<i>d-f</i>Emission in YAG and LuAG. ECS Journal of Solid State Science and Technology, 2013, 2, R3148-R3152.	0.9	90
103	On the Nature of the Luminescence of Sr[sub 2]CeO[sub 4]. Journal of the Electrochemical Society, 2000, 147, 4688.	1.3	89
104	Luminescence of nanocrystalline ZnSe:Cu. Applied Physics Letters, 2001, 79, 4222-4224.	1.5	89
105	Multi-photon quantum cutting in Gd2O2S:Tm3+ to enhance the photo-response of solar cells. Light: Science and Applications, 2015, 4, e344-e344.	7.7	88
106	The luminescence of ytterbium(II) in strontium tetraborate. Chemical Physics Letters, 1990, 167, 41-44.	1.2	87
107	Doped semiconductor nanoparticles â€" a new class of luminescent materials?. Journal of Luminescence, 2000, 87-89, 315-318.	1.5	87
108	Universal Role of Discrete Acoustic Phonons in the Low-Temperature Optical Emission of Colloidal Quantum Dots. Physical Review Letters, 2009, 102, 177402.	2.9	87

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109	One ion to catch them all: Targeted high-precision Boltzmann thermometry over a wide temperature range with Gd3+. Light: Science and Applications, 2021, 10, 236.	7.7	86
110	Optimizing infrared to near infrared upconversion quantum yield of Î²-NaYF4:Er3+ in fluoropolymer matrix for photovoltaic devices. Journal of Applied Physics, 2013, 114, .	1.1	85
111	The Different Nature of Band Edge Absorption and Emission in Colloidal PbSe/CdSe Core/Shell Quantum Dots. ACS Nano, 2011, 5, 58-66.	7.3	84
112	Single-Chip Ring Resonator-Based 1 $imes$ 8 Optical Beam Forming Network in CMOS-Compatible Waveguide Technology. IEEE Photonics Technology Letters, 2007, 19, 1130-1132.	1.3	83
113	Visible and NIR Upconverting Er³⁺â€“Yb³⁺ Luminescent Nanorattles and Other Hybrid PMOâ€Inorganic Structures for In Vivo Nanothermometry. Advanced Functional Materials, 2020, 30, 2003101.	7.8	83
114	Photostimulated luminescence and thermally stimulated luminescence of some new X-ray storage phosphors. Journal Physics D: Applied Physics, 1991, 24, 626-632.	1.3	81
115	Downconversion: a new route to visible quantum cutting. Journal of Alloys and Compounds, 2000, 300-301, 421-425.	2.8	80
116	Insights into the energy transfer mechanism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Ce</mml:mi></mml:mrow><mml:mrow><m YAG phosphors. Physical Review B, 2014, 90, .	1.1	79
117	Luminescence of nanocrystalline ZnS:Pb2+. Physical Chemistry Chemical Physics, 2001, 3, 2105-2112.	1.3	78
118	Optical Properties of Mn-Doped ZnTe Magic Size Nanocrystals. Journal of Physical Chemistry Letters, 2012, 3, 1663-1667.	2.1	78
119	Luminescent manganese-doped CsPbCl3 perovskite quantum dots. Scientific Reports, 2017, 7, 45906.	1.6	78
120	Temperature dependent photoluminescence of Cr3+ doped Sr8MgLa(PO4)7. Optical Materials, 2018, 85, 341-348.	1.7	78
121	Differences in Cross-Link Chemistry between Rigid and Flexible Dithiol Molecules Revealed by Optical Studies of CdTe Quantum Dots. Journal of Physical Chemistry C, 2007, 111, 11208-11215.	1.5	77
122	Photonic Effects on the Radiative Decay Rate and Luminescence Quantum Yield of Doped Nanocrystals. ACS Nano, 2015, 9, 1801-1808.	7.3	77
123	Temperature-Dependent Energy Transfer in Cadmium Telluride Quantum Dot Solids. Journal of Physical Chemistry B, 2005, 109, 5504-5508.	1.2	76
124	Magnetic quantum dots for multimodal imaging. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 475-491.	3.3	76
125	Optical spectroscopy of Ca3Sc2Si3O12, Ca3Y2Si3O12 and Ca3Lu2Si3O12 doped with Pr3+. Journal of Luminescence, 2010, 130, 893-901.	1.5	76
126	Engineering of lipid-coated PLGA nanoparticles with a tunable payload of diagnostically active nanocrystals for medical imaging. Chemical Communications, 2012, 48, 5835.	2.2	76

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127	Spectroscopy and vibronic transitions of divalent europium in LiBaF3. Journal of Luminescence, 1993, 55, 125-138.	1.5	75
128	Non-Boltzmann Luminescence in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Na</mml:mi><mml:mrow><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi></mml:mrow></mml:mrow><mml:msub><mml:mrow><mml:mrow><mml:mi mathvariant="normal">F</mml:mi></mml:mrow></mml:mrow><mml:mn>4</mml:mn></mml:msub><mml:mo>:</mml:mo><mml:msup : Implications for Luminescence Thermometr. Physical Review Applied, 2018, 10, .	1.5	75
129	Synthesis and luminescence of CdS quantum dots capped with a silica precursor. Journal of Luminescence, 2003, 105, 35-43.	1.5	74
130	Ultrafast Exciton Dynamics in CdSe Quantum Dots Studied from Bleaching Recovery and Fluorescence Transients. Journal of Physical Chemistry B, 2006, 110, 733-737.	1.2	74
131	Single Au Atom Doping of Silver Nanoclusters. ACS Nano, 2018, 12, 12751-12760.	7.3	74
132	Synthesis and narrow red luminescence of Cs2HfF6:Mn4+, a new phosphor for warm white LEDs. Journal of Luminescence, 2018, 194, 131-138.	1.5	72
133	Thermal enhancement and quenching of upconversion emission in nanocrystals. Nanoscale, 2019, 11, 12188-12197.	2.8	72
134	Progress in phosphors and filters for luminescent solar concentrators. Optics Express, 2012, 20, A395.	1.7	71
135	Lanthanide-Doped CaS and SrS Luminescent Nanocrystals: A Single-Source Precursor Approach for Doping. Journal of the American Chemical Society, 2014, 136, 16533-16543.	6.6	71
136	Optical Investigation of Quantum Confinement in PbSe Nanocrystals at Different Points in the Brillouin Zone. Small, 2008, 4, 127-133.	5.2	70
137	Quantum Dot and Cy5.5 Labeled Nanoparticles to Investigate Lipoprotein Biointeractions via FÃ¶rster Resonance Energy Transfer. Nano Letters, 2010, 10, 5131-5138.	4.5	70
138	A Ho³⁺â€Based Luminescent Thermometer for Sensitive Sensing over a Wide Temperature Range. Advanced Optical Materials, 2021, 9, 2001518.	3.6	70
139	Luminescence of divalent ytterbium in alkaline earth sulphates. Journal of Luminescence, 1994, 59, 185-194.	1.5	69
140	Luminescence properties of SrSi2AlO2N3 doped with divalent rare-earth ions. Journal of Luminescence, 2009, 129, 1341-1346.	1.5	69
141	6I emission and vibronic transitions of Eu2+ in KMgF3. Journal of Luminescence, 1994, 59, 293-301.	1.5	68
142	Upconversion quantum yield of Er3+-doped Î²-NaYF4 and Gd2O2S: The effects of host lattice, Er3+ doping, and excitation spectrum bandwidth. Journal of Luminescence, 2014, 153, 281-287.	1.5	67
143	Luminescence and scintillation properties of the small band gap compound LaI3:Ce3+. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 22-26.	0.7	66
144	Upconversion Dynamics in Er³⁺â€Doped Gd₂O₂S: Influence of Excitation Power, Er³⁺ Concentration, and Defects. Advanced Optical Materials, 2015, 3, 558-567.	3.6	66

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145	Luminescence and temperature dependent decay behaviour of divalent europium in Ba5SiO4X6 (X = Cl,) Tj ETQq1 1 0.784314 rgBT /Ov	1.5	65
146	Sm2+ in BAM: fluorescent probe for the number of luminescing sites of Eu2+ in BAM. Journal of Luminescence, 2001, 93, 147-153.	1.5	65
147	Thermoluminescence spectroscopy of Eu2+ and Mn2+ doped BaMgAl10O17. Journal of Luminescence, 2003, 101, 195-210.	1.5	65
148	Photoluminescence properties of Co2+-doped ZnO nanocrystals. Journal of Luminescence, 2006, 118, 245-250.	1.5	65
149	Imaging and quantifying the morphology of an organicâ€“inorganic nanoparticle at the sub-nanometre level. Nature Nanotechnology, 2010, 5, 538-544.	15.6	65
150	Downconversion for Solar Cells in YF₃:Pr³⁺, Yb³⁺. Spectroscopy Letters, 2010, 43, 373-381.	0.5	65
151	Luminescence of Ag+ in crystalline and glassy SrB4O7. Journal of Physics and Chemistry of Solids, 1993, 54, 901-906.	1.9	64
152	Configuration coordinate energy level diagrams of intervalence and metal-to-metal charge transfer states of dopant pairs in solids. Physical Chemistry Chemical Physics, 2015, 17, 19874-19884.	1.3	64
153	Luminescence thermometry for <i>in situ</i> temperature measurements in microfluidic devices. Lab on A Chip, 2019, 19, 1236-1246.	3.1	64
154	Energy transfer processes involving different luminescence centres in BaF2:Ce. Journal of Physics Condensed Matter, 1993, 5, 1659-1680.	0.7	62
155	4fnâ^'15dâ†'4fn emission of Ce3+, Pr3+, Nd3+, Er3+, and Tm3+ in LiYF4 and YPO4. Physical Review B, 2005, 71, .	1.1	61
156	Energy transfer phenomena in Li(Y, Gd)F4:Ce, Tb. Journal of Luminescence, 1986, 35, 155-161.	1.5	60
157	Trends in parameters for the 4fNâ†'4fNâ^'15d spectra of lanthanide ions in crystals. Journal of Alloys and Compounds, 2002, 344, 240-245.	2.8	60
158	Near-Infrared Fluorescence Energy Transfer Imaging of Nanoparticle Accumulation and Dissociation Kinetics in Tumor-Bearing Mice. ACS Nano, 2013, 7, 10362-10370.	7.3	60
159	Temperature-induced line broadening, line narrowing and line shift in the luminescence of nanocrystalline ZnS:Mn2+. Journal of Luminescence, 2003, 104, 187-196.	1.5	59
160	Thermal ionization and thermally activated crossover quenching processes for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>5</mml:mn><mml:mi>d</mml:mi><mml:mo>â^'</mml:m in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Y</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">A</mml:mi><mml:msub><mml:mi mathvariant="normal">l</mml:mi><mml:mrow. Physical Review B, 2017, 95, .	1.1	59
161	Mapping Elevated Temperatures with a Micrometer Resolution Using the Luminescence of Chemically Stable Upconversion Nanoparticles. ACS Applied Nano Materials, 2021, 4, 4208-4215.	2.4	57
162	Size Effects on Semiconductor Nanoparticles. , 2014, , 13-51.		57

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163	Preparation, X-ray analysis and spectroscopic investigation of nanostructured Lu2O3:Tb. Journal of Alloys and Compounds, 2001, 323-324, 8-12.	2.8	56
164	Substituted 4,4â€²-Stilbenoid NCN-Pincer Platinum(II) Complexes. Luminescence and Tuning of the Electronic and NLO Properties and the Application in an OLED. Organometallics, 2008, 27, 1690-1701.	1.1	56
165	Long-Lived Dark Exciton Emission in Mn-Doped CsPbCl₃ Perovskite Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 979-984.	1.5	56
166	Modeling improvement of spectral response of solar cells by deployment of spectral converters containing semiconductor nanocrystals. Semiconductors, 2004, 38, 962-969.	0.2	55
167	Downconversion for the Er3+, Yb3+ couple in KPb2Cl5â€”A low-phonon frequency host. Journal of Luminescence, 2011, 131, 608-613.	1.5	55
168	A new photostimulable phosphor: Eu2+-activated bariumbromosilicate (Ba5SiO4Br6). Materials Chemistry and Physics, 1989, 21, 261-270.	2.0	54
169	Luminescence of divalent ytterbium in magnesium fluoride crystals. Journal of Luminescence, 1995, 63, 223-234.	1.5	54
170	Emission spectra and trends for 4fnâˆ’15dâ†’4fn transitions of lanthanide ions: Experiment and theory. Journal of Chemical Physics, 2001, 115, 9382-9392.	1.2	54
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