

Dirk Poelman

List of Publications by Year in descending order

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250
papers

11,180
citations

31976

53
h-index

39675

94
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258
all docs

258
docs citations

258
times ranked

10318
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistent Luminescence in Eu ²⁺ -Doped Compounds: A Review. <i>Materials</i> , 2010, 3, 2536-2566.	2.9	856
2	Selecting Conversion Phosphors for White Light-Emitting Diodes. <i>Journal of the Electrochemical Society</i> , 2011, 158, R37.	2.9	655
3	Composition and Size-Dependent Extinction Coefficient of Colloidal PbSe Quantum Dots. <i>Chemistry of Materials</i> , 2007, 19, 6101-6106.	6.7	475
4	Methods for the determination of the optical constants of thin films from single transmission measurements: a critical review. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 1850-1857.	2.8	336
5	Revealing trap depth distributions in persistent phosphors. <i>Physical Review B</i> , 2013, 87, .	3.2	330
6	Persistent Luminescence in Non-Eu ²⁺ -Doped Compounds: A Review. <i>Materials</i> , 2013, 6, 2789-2818.	2.9	311
7	High-performance lead-free bulk ceramics for electrical energy storage applications: design strategies and challenges. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18026-18085.	10.3	277
8	Luminescence in Sulfides: A Rich History and a Bright Future. <i>Materials</i> , 2010, 3, 2834-2883.	2.9	228
9	Optical and photoconductive properties of SnS thin films prepared by electron beam evaporation. <i>Solar Energy Materials and Solar Cells</i> , 2003, 80, 297-303.	6.2	211
10	K ₂ SiF ₆ :Mn ⁴⁺ as a red phosphor for displays and warm-white LEDs: a review of properties and perspectives. <i>Optical Materials Express</i> , 2017, 7, 3332.	3.0	186
11	Luminescent Lanthanide MOFs: A Unique Platform for Chemical Sensing. <i>Materials</i> , 2018, 11, 572.	2.9	145
12	Mechanoluminescence in BaSi ₂ O ₂ N ₂ :Eu. <i>Acta Materialia</i> , 2012, 60, 5494-5500.	7.9	127
13	Photocatalytic activity of dc magnetron sputter deposited amorphous TiO ₂ thin films. <i>Applied Surface Science</i> , 2007, 254, 148-152.	6.1	126
14	In vivo optical imaging with rare earth doped Ca ₂ Si ₅ N ₈ persistent luminescence nanoparticles. <i>Optical Materials Express</i> , 2012, 2, 261.	3.0	126
15	Enzymatic surface modification and functionalization of PET: A water contact angle, FTIR, and fluorescence spectroscopy study. <i>Biotechnology and Bioengineering</i> , 2009, 103, 845-856.	3.3	124
16	A detailed XPS study of the rare earth compounds EuS and EuF ₃ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 74, 45-56.	1.7	106
17	Luminescence and x-ray absorption measurements of persistent SrAl ₂ O ₄ :Eu,Dy powders: Evidence for valence state changes. <i>Physical Review B</i> , 2011, 84,	3.2	105
18	Persistent phosphors for the future: Fit for the right application. <i>Journal of Applied Physics</i> , 2020, 128,	2.5	99

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19	Absolute determination of photoluminescence quantum efficiency using an integrating sphere setup. Review of Scientific Instruments, 2014, 85, 123115.	1.3	96
20	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.	3.1	85
21	Persistent luminescence in nitride and oxynitride phosphors: A review. Optical Materials, 2014, 36, 1913-1919.	3.6	85
22	Energy transfer in Eu ³⁺ doped scheelites: use as thermographic phosphor. Optics Express, 2014, 22, A961.	3.4	84
23	Hydrophilic, Bright CuInS ₂ Quantum Dots as Cd-Free Fluorescent Labels in Quantitative Immunoassay. Langmuir, 2014, 30, 7567-7575.	3.5	81
24	Luminescent Behavior of the K ₂ SiF ₆ :Mn ⁴⁺ Red Phosphor at High Fluxes and at the Microscopic Level. ECS Journal of Solid State Science and Technology, 2016, 5, R3040-R3048.	1.8	80
25	Incommensurate Modulation and Luminescence in the CaGd ₂ (1-x)Eu _{2x} (MoO ₄) ₄ (1-y)WO ₄ (1-z) (0 ≤ x ≤ 1, 0 ≤ y ≤ 1) Red Phosphors. Chemistry of Materials, 2013, 25, 4387-4395.	3.9	79
26	Using rare earth doped thiosilicate phosphors in white light emitting LEDs: Towards low colour temperature and high colour rendering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 264-268.	3.5	78
27	Nature of the active sites for the total oxidation of toluene by CuO/CeO ₂ /Al ₂ O ₃ . Journal of Catalysis, 2012, 295, 91-103.	6.2	78
28	Plasma enhanced atomic layer deposition of Ga ₂ O ₃ thin films. Journal of Materials Chemistry A, 2014, 2, 19232-19238.	10.3	77
29	Luminescent Afterglow Behavior in the M ₂ Si ₅ N ₈ : Eu Family (M = Ca, Sr, Ba). Materials, 2011, 4, 980-990.	2.9	74
30	Red Mn ⁴⁺ -Doped Fluoride Phosphors: Why Purity Matters. ACS Applied Materials & Interfaces, 2018, 10, 18845-18856.	8.0	74
31	Measured luminance and visual appearance of multi-color persistent phosphors. Optics Express, 2009, 17, 358.	3.4	73
32	Designing Photochromic Materials with Large Luminescence Modulation and Strong Photochromic Efficiency for Dual-Mode Rewritable Optical Storage. Advanced Optical Materials, 2021, 9, 2100669.	7.3	73
33	An XPS study of the dopants' valence states and the composition of CaS _{1-x} Sex:Eu and SrS _{1-x} Sex:Ce thin film electroluminescent devices. Journal of Luminescence, 1995, 63, 19-30.	3.1	71
34	Metal Organic Frameworks Based Materials for Heterogeneous Photocatalysis. Molecules, 2018, 23, 2947.	3.8	69
35	Persistent luminescence in rare-earth codoped. Journal of Luminescence, 2009, 129, 1140-1143.	3.1	68
36	Photoreceptor-Mediated Bending towards UV-B in Arabidopsis. Molecular Plant, 2014, 7, 1041-1052.	8.3	68

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55	Focus issue introduction: persistent phosphors. <i>Optical Materials Express</i> , 2012, 2, 452.	3.0	53
56	Exploring Lanthanide Doping in UiO-66: A Combined Experimental and Computational Study of the Electronic Structure. <i>Inorganic Chemistry</i> , 2018, 57, 5463-5474.	4.0	51
57	Highly Responsive Photochromic Ceramics for High-Contrast Rewritable Information Displays. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000525.	8.7	51
58	TiO ₂ films prepared by DC magnetron sputtering from ceramic targets. <i>Vacuum</i> , 2002, 68, 31-38.	3.5	50
59	The effect of argon pressure on the structural and photocatalytic characteristics of TiO ₂ thin films deposited by d.c. magnetron sputtering. <i>Thin Solid Films</i> , 2006, 515, 425-429.	1.8	48
60	Luminescent characterization of CaAl ₂ S ₄ :Eu powder. <i>Journal of Luminescence</i> , 2007, 126, 508-514.	3.1	48
61	Highly Efficient Low-Temperature N-Doped TiO ₂ Catalysts for Visible Light Photocatalytic Applications. <i>Materials</i> , 2018, 11, 584.	2.9	48
62	Reversible yellow-gray photochromism in potassium-sodium niobate-based transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1925-1933.	5.7	48
63	Characterization of TiO ₂ powders and thin films prepared by non-aqueous sol-gel techniques. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 52, 424-431.	2.4	47
64	Temperature Dependency of Trap-Controlled Persistent Luminescence. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000060.	8.7	47
65	Synthesis, Crystal Structures, and Properties of Novel Heterometallic La/Pr ³⁺ Cu ²⁺ K and Sm/Eu/Tb ³⁺ Cu Coordination Polymers. <i>Crystal Growth and Design</i> , 2010, 10, 1059-1067.	3.0	46
66	Anomalous photoluminescence in BaS:Eu. <i>Physical Review B</i> , 2006, 74, .	3.2	45
67	Electrical properties of Al ₂ O ₃ films for TFEL-devices made with sol-gel technology. <i>Thin Solid Films</i> , 2006, 514, 323-328.	1.8	45
68	Single Crystal CaS:Eu and SrS:Eu Luminescent Particles Obtained by Solvothermal Synthesis. <i>Journal of the Electrochemical Society</i> , 2007, 154, J278.	2.9	45
69	Optical properties of root canal irrigants in the 300-3,000-nm wavelength region. <i>Lasers in Medical Science</i> , 2014, 29, 1557-1562.	2.1	45
70	Identifying Near-Infrared Persistent Luminescence in Cr ³⁺ -Doped Magnesium Gallogermanates Featuring Afterglow Emission at Extremely Low Temperature. <i>Advanced Optical Materials</i> , 2020, 8, 1901848.	7.3	45
71	Temperature dependent persistent luminescence: Evaluating the optimum working temperature. <i>Scientific Reports</i> , 2019, 9, 10517.	3.3	44
72	Photocatalytic removal of ethanol and acetaldehyde by N-promoted TiO ₂ films: The role of the different nitrogen sources. <i>Catalysis Today</i> , 2011, 161, 169-174.	4.4	43

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73	Optimized deposition of TiO ₂ thin films produced by a non-aqueous sol-gel method and quantification of their photocatalytic activity. <i>Chemical Engineering Journal</i> , 2012, 195-196, 347-358.	12.7	42
74	Stabilizing Fluoride Phosphors: Surface Modification by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2019, 31, 7192-7202.	6.7	42
75	In-situ XAS study on the Cu and Ce local structural changes in a CuO/CeO ₂ /Al ₂ O ₃ catalyst under propane reduction and re-oxidation. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 1274-1284.	4.0	41
76	Oxidation and Luminescence Quenching of Europium in BaMgAl ₁₀ O ₁₇ Blue Phosphors. <i>Chemistry of Materials</i> , 2017, 29, 10122-10129.	6.7	41
77	Hydrothermal synthesis, crystal structure and properties of Ag(I)-4f compounds based on 1H-benzimidazole-5,6-dicarboxylic acid. <i>Dalton Transactions</i> , 2010, 39, 11383.	3.3	40
78	Unpredictable photocatalytic ability of H ₂ -reduced rutile-TiO ₂ xerogel in the degradation of dye-pollutants under UV and visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2010, 94, 263-271.	20.2	40
79	Photometry in the dark: time dependent visibility of low intensity light sources. <i>Optics Express</i> , 2010, 18, 26293.	3.4	40
80	Fe ^{II} Spin Transition Materials Including an Amino-Ester 1,2,4-Triazole Derivative, Operating at, below, and above Room Temperature. <i>Inorganic Chemistry</i> , 2016, 55, 4278-4295.	4.0	39
81	The role of water in the reusability of aminated silica catalysts for aldol reactions. <i>Journal of Catalysis</i> , 2018, 361, 51-61.	6.2	39
82	Predicting the afterglow duration in persistent phosphors: a validated approach to derive trap depth distributions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30455-30465.	2.8	39
83	Rare earth doped core-shell particles as phosphor for warm-white light-emitting diodes. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	38
84	Red Persistent Luminescence in Ca ₂ Si ₄ :Eu,Nd. <i>Journal of the Electrochemical Society</i> , 2009, 156, H243.	2.9	37
85	Sol-Gel Synthesis of CaTiO ₃ :Pr ³⁺ Red Phosphors: Tailoring the Synthetic Parameters for Luminescent and Afterglow Applications. <i>ACS Omega</i> , 2017, 2, 4972-4981.	3.5	36
86	Advances in sulfide phosphors for displays and lighting. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 134-138.	2.2	35
87	Extending the afterglow in CaAl ₂ O ₄ :Eu,Nd persistent phosphors by electron beam annealing. <i>Optical Materials Express</i> , 2012, 2, 1306.	3.0	35
88	Kinetic study of p-nitrophenol photodegradation with modified TiO ₂ xerogels. <i>Chemical Engineering Journal</i> , 2012, 191, 441-450.	12.7	35
89	Achieving Efficient Red-Emitting Sr ₂ Ca _{1-x} Ln _x WO ₆ :Mn ⁴⁺ (Ln = La, Gd, Y, Lu, \hat{I}) Tj ETQq1 1 0.784314 Application via Facile Ion Substitution in Luminescence-Ignorable Sr ₂ Ca _{1-x} WO ₆ :Mn ⁴⁺ , 2020, 2, 771-778.		35
90	K ₂ MnF ₆ as a precursor for saturated red fluoride phosphors: the struggle for structural stability. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10761-10769.	5.5	34

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91	Electronic and optical characterisation of TiO ₂ films deposited from ceramic targets. <i>Surface Science</i> , 2001, 482-485, 940-945.	1.9	33
92	Photoluminescence study of polycrystalline CdS/CdTe thin film solar cells. <i>Thin Solid Films</i> , 2005, 480-481, 264-268.	1.8	33
93	Optical and structural properties of aluminium oxide thin films prepared by a non-aqueous sol-gel technique. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 59, 327-333.	2.4	33
94	Optically stimulated detrapping during charging of persistent phosphors. <i>Optical Materials Express</i> , 2016, 6, 844.	3.0	33
95	Thermal quenching, cathodoluminescence and thermoluminescence study of Eu ²⁺ doped CaS powder. <i>Journal of Alloys and Compounds</i> , 2016, 657, 787-793.	5.5	33
96	Near-infrared persistent luminescence in Mn ⁴⁺ doped perovskite type solid solutions. <i>Ceramics International</i> , 2019, 45, 8345-8353.	4.8	33
97	Spectral Characterization of a Digital Still Camera's NIR Modification to Enhance Archaeological Observation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 3456-3468.	6.3	32
98	Synthesis, structure and properties of 2D lanthanide coordination polymers based on N-heterocyclic arylpolycarboxylate ligands. <i>Dalton Transactions</i> , 2014, 43, 17385-17394.	3.3	32
99	TAP study on the active oxygen species in the total oxidation of propane over a CuO-CeO ₂ /Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2010, 157, 49-54.	4.4	31
100	An anionic metal-organic framework as a platform for charge-and size-dependent selective removal of cationic dyes. <i>Dyes and Pigments</i> , 2018, 156, 332-337.	3.7	31
101	Local, Temperature-Dependent Trapping and Detrapping in the LiGa ₅ O ₈ :Cr Infrared Emitting Persistent Phosphor. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R3171-R3175.	1.8	31
102	Thermoluminescence and near-infrared persistent luminescence in LaAlO ₃ :Mn ⁴⁺ ,R (R= Na ⁺ , Ca ²⁺ , Sr ²⁺ ,) Tj ETQq0 0.0 rgBT /Overlock 1	4.8	31
103	Enhanced near-infrared persistent luminescence in MgGa ₂ O ₄ :Cr ³⁺ through codoping. <i>Journal of Luminescence</i> , 2020, 220, 117035.	3.1	31
104	New supported vanadia catalysts for oxidation reactions prepared by sputter deposition. <i>Journal of Catalysis</i> , 2007, 245, 156-172.	6.2	30
105	Kinetic modeling of the total oxidation of propane over anatase and vanadia sputter deposited catalysts. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 295-306.	20.2	30
106	Stability improvement of moisture sensitive CaS:Eu ²⁺ micro-particles by coating with sol-gel alumina. <i>Optical Materials</i> , 2011, 33, 1032-1035.	3.6	30
107	Hydrothermal synthesis, crystal structure and properties of Ni(ii)-4f complexes based on 1H-benzimidazole-5,6-dicarboxylic acid. <i>Dalton Transactions</i> , 2012, 41, 7670.	3.3	30
108	Thermal quenching and luminescence lifetime of saturated green Sr ^{1-x} EuxGa ₂ S ₄ phosphors. <i>Optical Materials</i> , 2012, 34, 1902-1907.	3.6	30

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109	Structure and luminescence of (Ca,Sr) ₂ Si ₄ :Eu ²⁺ phosphors. Journal Physics D: Applied Physics, 2010, 43, 085401.	2.8	29
110	An ambient temperature aqueous sol-gel processing of efficient nanocrystalline doped TiO ₂ -based photocatalysts for the degradation of organic pollutants. Journal of Sol-Gel Science and Technology, 2014, 71, 557-570.	2.4	29
111	Persistent Phosphors. Fundamental Theories of Physics, 2015, , 1-108.	0.3	29
112	KEu(MoO ₄) ₂ : Polymorphism, Structures, and Luminescent Properties. Chemistry of Materials, 2015, 27, 5519-5530.	6.7	29
113	Influence of the growth conditions on the properties of CaS:Eu electroluminescent thin films. Journal of Luminescence, 1997, 75, 175-181.	3.1	28
114	Crystal Structure and Luminescent Properties of R ₂ (MoO ₄) ₃ (R = Gd, Sm) Red Phosphors. Chemistry of Materials, 2014, 26, 7124-7136.	6.7	28
115	Ambient temperature ZrO ₂ -doped TiO ₂ crystalline photocatalysts: Highly efficient powders and films for water depollution. Materials Today Energy, 2019, 13, 312-322.	4.7	28
116	Photoluminescent and structural properties of CaS:Pb electron beam deposited thin films. Journal of Physics Condensed Matter, 2001, 13, 5709-5716.	1.8	27
117	Blue electroluminescence from multilayered BaS:Eu/Al ₂ S ₃ thin films. Journal of Applied Physics, 2004, 95, 184-190.	2.5	27
118	Red-Light-Activated Red-Emitting Persistent Luminescence for Multicycle Bioimaging: A Case Study of CaS:Eu ²⁺ ,Dy ³⁺ . Journal of Physical Chemistry C, 2020, 124, 16586-16595.	3.1	27
119	Experimental and theoretical evidence for vacancy-clustering-induced large voids in Czochralski-grown germanium crystals. Applied Physics Letters, 2005, 87, 061915.	3.3	26
120	REPRESSOR OF ULTRAVIOLET-B PHOTOMORPHOGENESIS function allows efficient phototropin mediated ultraviolet-B phototropism in etiolated seedlings. Plant Science, 2016, 252, 215-221.	3.6	26
121	Structure and photoluminescence of (Ca,Eu) ₂ Si ₄ powders. Journal of Physics Condensed Matter, 2007, 19, 246223.	1.8	25
122	Electrophoretic deposition of ZnO nanoparticles, from micropatterns to substrate coverage. Nanotechnology, 2008, 19, 245301.	2.6	25
123	A photoluminescence and structural analysis of CuInS ₂ -on-Cu-tape solar cells (CISCuT). Thin Solid Films, 2006, 511-512, 304-308.	1.8	24
124	Facile Synthesis of Mn ⁴⁺ -Activated Double Perovskite Germanate Phosphors with Near-Infrared Persistent Luminescence. Nanomaterials, 2019, 9, 1759.	4.1	24
125	Visible-enhanced photocatalytic performance of CuWO ₄ /WO ₃ hetero-structures: incorporation of plasmonic Ag nanostructures. New Journal of Chemistry, 2018, 42, 11109-11116.	2.8	23
126	Crystallographic and luminescent properties of orthorhombic BaAl ₂ S ₄ :Eu powder and thin films. Journal of Applied Physics, 2005, 98, 043512.	2.5	22

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127	Self-organization of an optomagnetic CoFe_2O_4 - ZnS nanocomposite: preparation and characterization. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3935-3945.	5.5	22
128	Samarium Monosulfide (SmS): Reviewing Properties and Applications. <i>Materials</i> , 2017, 10, 953.	2.9	22
129	The influence of source powder composition on the electroluminescence of $\text{Ca}_{1-x}\text{Sr}_x\text{S:Eu}$ thin films. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1759-1764.	2.9	21
130	Kinetic modeling of the total oxidation of propane over Cu- and Ce-based catalysts. <i>Journal of Catalysis</i> , 2011, 283, 75-88.	6.2	21
131	Charge transfer induced energy storage in CaZnOS:Mn^{2+} : insight from experimental and computational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9075-9085.	2.8	21
132	Grown-In Lattice Defects and Diffusion in Czochralski-Grown Germanium. <i>Defect and Diffusion Forum</i> , 2004, 230-232, 149-176.	0.4	20
133	Time-resolved operando X-ray absorption study of $\text{CuO}/\text{CeO}_2/\text{Al}_2\text{O}_3$ catalyst during total oxidation of propane. <i>Applied Catalysis B: Environmental</i> , 2010, 97, 381-388.	20.2	20
134	Sol-gel Syntheses of Photocatalysts for the Removal of Pharmaceutical Products in Water. <i>Nanomaterials</i> , 2019, 9, 126.	4.1	20
135	Power-dependent upconversion luminescence properties of self-sensitized Er_2WO_6 phosphor. <i>Dalton Transactions</i> , 2021, 50, 229-239.	3.3	20
136	Near-Infrared Persistent Luminescence and Trap Reshuffling in Mn^{4+} Doped Alkali-Earth Metal Tungstates. <i>Advanced Optical Materials</i> , 2022, 10, 2101714.	7.3	20
137	Magnetron sputter deposition for catalyst synthesis. <i>Applied Catalysis A: General</i> , 2007, 325, 213-219.	4.3	19
138	$\text{Cs}_7\text{Nd}_{11}(\text{SeO}_3)_{12}\text{Cl}_{16}$: First Noncentrosymmetric Structure among Alkaline-Metal Lanthanide Selenite Halides. <i>Inorganic Chemistry</i> , 2013, 52, 3611-3619.	4.0	19
139	Photoluminescence investigation of $\text{Cu}_2\text{ZnSnS}_4$ thin film solar cells. <i>Thin Solid Films</i> , 2015, 582, 146-150.	1.8	19
140	Photoluminescence and thermoluminescence properties of BaGa_2O_4 . <i>Physica B: Condensed Matter</i> , 2018, 535, 268-271.	2.7	19
141	Photoluminescence of electron beam evaporated CaS:Bi thin films. <i>Journal of Luminescence</i> , 2003, 104, 145-150.	3.1	18
142	Aqueous sol-gel processing of precursor oxides for ZrW_2O_8 synthesis. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 43, 347-353.	2.4	18
143	Novel sol-gel preparation of V-TiO_2 films for the photocatalytic oxidation of ethanol in air. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 263, 1-7.	3.9	18
144	Luminescence of ytterbium in CaS and SrS . <i>Journal of Luminescence</i> , 2014, 154, 445-451.	3.1	18

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145	A new microwave approach for the synthesis of green emitting Mn ²⁺ -doped ZnAl ₂ O ₄ : A detailed study on its structural and optical properties. <i>Journal of Luminescence</i> , 2020, 226, 117482.	3.1	18
146	Effect of the oxygen deficiency of ceramic TiO ₂ -x targets on the deposition of TiO ₂ thin films by DC magnetron sputtering. <i>Surface and Interface Analysis</i> , 2004, 36, 1167-1170.	1.8	17
147	Effect of Substrate Sodium Content on Crystallization and Photocatalytic Activity of TiO ₂ Films Prepared by DC Magnetron Sputtering. <i>International Journal of Photoenergy</i> , 2007, 2007, 1-5.	2.5	17
148	A XAS study of the luminescent Eu centers in thiosilicate phosphors. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8678.	2.8	17
149	Origin of saturated green emission from europium in zinc thiogallate. <i>Optical Materials Express</i> , 2013, 3, 1338.	3.0	17
150	The path towards efficient wide band gap thin-film kesterite solar cells with transparent back contact for viable tandem application. <i>Solar Energy Materials and Solar Cells</i> , 2021, 219, 110824.	6.2	17
151	A Standalone, Battery-Free Light Dosimeter for Ultraviolet to Infrared Light. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
152	Realizing Simultaneous X-Ray Imaging and Dosimetry Using Phosphor-Based Detectors with High Memory Stability and Convenient Readout Process. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
153	Whispering gallery modes in micron-sized SrS:Eu octahedrons. <i>Applied Physics Letters</i> , 2009, 94, 051104.	3.3	16
154	Europium doped thiosilicate phosphors of the alkaline earth metals Mg, Ca, Sr and Ba: Structure and luminescence. <i>Optical Materials</i> , 2010, 33, 141-144.	3.6	16
155	Time resolved microscopic cathodoluminescence spectroscopy for phosphor research. <i>Physica B: Condensed Matter</i> , 2014, 439, 35-40.	2.7	16
156	Biocompatible Lipid-Coated Persistent Luminescent Nanoparticles for In Vivo Imaging of Dendritic Cell Migration. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900371.	2.3	16
157	Chemical surface passivation of low resistivity p-type Ge wafers for solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2003, 76, 167-173.	6.2	15
158	Efficient N, Fe Co-Doped TiO ₂ Active under Cost-Effective Visible LED Light: From Powders to Films. <i>Catalysts</i> , 2020, 10, 547.	3.5	15
159	Recent advances in microwave synthesis for photoluminescence and photocatalysis. <i>Materials Today Communications</i> , 2022, 32, 103890.	1.9	15
160	The influence of Se co-evaporation on the electroluminescent properties of SrS:Ce thin films. <i>Journal of Luminescence</i> , 1992, 52, 259-264.	3.1	14
161	V ₂ O ₅ thin films deposited by means of d.c. magnetron sputtering from ceramic V ₂ O ₃ targets. <i>Surface and Interface Analysis</i> , 2002, 34, 724-727.	1.8	14
162	Recent Progress in Understanding of Lattice Defects in Czochralski-Grown Germanium: Catching-up with Silicon. <i>Solid State Phenomena</i> , 2005, 108-109, 683-690.	0.3	14

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163	The thermally induced metal–semiconducting phase transition of samarium monosulfide (SmS) thin films. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 015005.	1.8	14
164	(Co, Nb, Sm)-Doped Tin Dioxide Varistor Ceramics Sintered Using Nanopowders Prepared by Coprecipitation Method. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3249-3255.	3.8	14
165	Solvent-regulated assemblies of 1D lanthanide coordination polymers with the tricarboxylate ligand. <i>Dalton Transactions</i> , 2014, 43, 3462.	3.3	14
166	Influence of an Sb doping layer in CIGS thin-film solar cells: a photoluminescence study. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 045102.	2.8	14
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