

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	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
2	Modulating trap distribution of persistent phosphors upon simple microwave-assisted solid-state reactions. <i>Chemical Engineering Journal</i> , 2022, 431, 133706.	12.7	5
3	A Standalone, Battery-Free Light Dosimeter for Ultraviolet to Infrared Light. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
4	Deep-level trap formation in Si-substituted Sr ₂ SnO ₄ :Sm ³⁺ for rewritable optical information storage. <i>Materials Today Chemistry</i> , 2022, 24, 100906.	3.5	6
5	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
6	Recent advances in microwave synthesis for photoluminescence and photocatalysis. <i>Materials Today Communications</i> , 2022, 32, 103890.	1.9	15
7	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
8	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
9	Power-dependent upconversion luminescence properties of self-sensitized Er ₂ WO ₆ phosphor. <i>Dalton Transactions</i> , 2021, 50, 229-239.	3.3	20
10	Realizing nondestructive luminescence readout in photochromic ceramics via deep ultraviolet excitation for optical information storage. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14012-14020.	5.5	14
11	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
12	Emergence of Metallic Conductivity in Ordered One-Dimensional Coordination Polymer Thin Films upon Reductive Doping. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10249-10256.	8.0	5
13	Highly Responsive Photochromic Ceramics for High-Contrast Rewritable Information Displays. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000525.	8.7	51
14	Green Synthesis of N/Zr Co-Doped TiO ₂ for Photocatalytic Degradation of p-Nitrophenol in Wastewater. <i>Catalysts</i> , 2021, 11, 235.	3.5	12
15	Photochromic Ceramic: Highly Responsive Photochromic Ceramics for High-Contrast Rewritable Information Displays (<i>Laser Photonics Rev.</i> 15(4)/2021). <i>Laser and Photonics Reviews</i> , 2021, 15, 2170027.	8.7	1
16	NIR emitting GdVO ₄ :Nd nanoparticles for bioimaging: The role of the synthetic pathway. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158413.	5.5	8
17	Mo-doped ZnV ₂ O ₆ /reduced graphene oxide photoanodes for solar hydrogen production. <i>Electrochimica Acta</i> , 2021, 382, 138333.	5.2	11
18	Ag-functionalized Bi ₂ W(Mo)O ₆ /PVDF membrane for photocatalytic water treatment. <i>Journal of Materials Science</i> , 2021, 56, 16339-16350.	3.7	13

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37	Temperature Dependency of Trap-Controlled Persistent Luminescence. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000060.	8.7	47
38	Persistent phosphors for the future: Fit for the right application. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	99
39	Stabilizing Fluoride Phosphors: Surface Modification by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2019, 31, 7192-7202.	6.7	42
40	Ambient temperature ZrO ₂ -doped TiO ₂ crystalline photocatalysts: Highly efficient powders and films for water depollution. <i>Materials Today Energy</i> , 2019, 13, 312-322.	4.7	28
41	Temperature dependent persistent luminescence: Evaluating the optimum working temperature. <i>Scientific Reports</i> , 2019, 9, 10517.	3.3	44
42	Ionic Liquid-Assisted Hydrothermal Synthesis of a Biocompatible Filler for Photo-Curable Dental Composite: From Theory to Experiment. <i>Materials</i> , 2019, 12, 2339.	2.9	2
43	Spectral modifications and enhancement of red light yield tailored by Y ³⁺ incorporation in the SrGd _{1.94} Eu _{0.06} O ₄ system. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20665-20672.	2.2	1
44	Switchable Piezoresistive SmS Thin Films on Large Area. <i>Sensors</i> , 2019, 19, 4390.	3.8	8
45	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
46	Near-infrared persistent luminescence in Mn ⁴⁺ doped perovskite type solid solutions. <i>Ceramics International</i> , 2019, 45, 8345-8353.	4.8	33
47	Sol-gel Syntheses of Photocatalysts for the Removal of Pharmaceutical Products in Water. <i>Nanomaterials</i> , 2019, 9, 126.	4.1	20
48	SmS/EuS/SmS Tri-Layer Thin Films: The Role of Diffusion in the Pressure Triggered Semiconductor-Metal Transition. <i>Nanomaterials</i> , 2019, 9, 1513.	4.1	2
49	Facile Synthesis of Mn ⁴⁺ -Activated Double Perovskite Germanate Phosphors with Near-Infrared Persistent Luminescence. <i>Nanomaterials</i> , 2019, 9, 1759.	4.1	24
50	Excitation energy dependence of the life time of orange emission from Mn-doped ZnS nanocrystals. <i>Journal of Luminescence</i> , 2018, 199, 39-44.	3.1	13
51	Reduction of Eu ³⁺ to Eu ²⁺ in $\text{Y}_2\text{Si}_2\text{O}_7$ and $\text{X}_1\text{Y}_2\text{SiO}_5$ and their luminescent properties. <i>Journal of Alloys and Compounds</i> , 2018, 765, 747-752.	5.5	5
52	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
53	Exploring Lanthanide Doping in U ₁₀ -66: A Combined Experimental and Computational Study of the Electronic Structure. <i>Inorganic Chemistry</i> , 2018, 57, 5463-5474.	4.0	51
54	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

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55	Microscopic Study of Dopant Distribution in Europium Doped SrGa ₂ S ₄ : Impact on Thermal Quenching and Phosphor Performance. ECS Journal of Solid State Science and Technology, 2018, 7, R3052-R3056.	1.8	9
56	Local, Temperature-Dependent Trapping and Detrapping in the LiGa ₅ O ₈ :Cr Infrared Emitting Persistent Phosphor. ECS Journal of Solid State Science and Technology, 2018, 7, R3171-R3175.	1.8	31
57	Photoluminescence and thermoluminescence properties of BaGa ₂ O ₄ . Physica B: Condensed Matter, 2018, 535, 268-271.	2.7	19
58	Predicting the afterglow duration in persistent phosphors: a validated approach to derive trap depth distributions. Physical Chemistry Chemical Physics, 2018, 20, 30455-30465.	2.8	39
59	Metal Organic Frameworks Based Materials for Heterogeneous Photocatalysis. Molecules, 2018, 23, 2947.	3.8	69
60	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
61	Luminescent Lanthanide MOFs: A Unique Platform for Chemical Sensing. Materials, 2018, 11, 572.	2.9	145
62	Red Mn ⁴⁺ -Doped Fluoride Phosphors: Why Purity Matters. ACS Applied Materials & Interfaces, 2018, 10, 18845-18856.	8.0	74
63	Thermoluminescence and near-infrared persistent luminescence in LaAlO ₃ :Mn ⁴⁺ ,R (R= Na ⁺ , Ca ²⁺ , Sr ²⁺ ,) Tj ETQq1 1 0.784314 rgBT / 4.8 31	4.8	31
64	Highly Efficient Low-Temperature N-Doped TiO ₂ Catalysts for Visible Light Photocatalytic Applications. Materials, 2018, 11, 584.	2.9	48
65	(Invited) Red Fluoride Phosphors: A Story of Reliability. ECS Meeting Abstracts, 2018, , .	0.0	0
66	(Invited) Microscopic Study of Dopant Distribution in Phosphors: Impact on Thermal Quenching and Phosphor Performance. ECS Meeting Abstracts, 2018, , .	0.0	0
67	Effect of cation vacancies on the crystal structure and luminescent properties of Ca _{0.85} ~ ^{1.5} Gd _x Eu _{0.1} ~ ^{0.05} +0.5x WO ₄ (0 ~ ⁰ % x ~ ^{0.567}) scheelite-based red phosphors. Journal of Alloys and Compounds, 2017, 706, 358-369.	5.5	5
68	Charge transfer induced energy storage in CaZnOS:Mn ~ ⁴⁺ insight from experimental and computational spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 9075-9085.	2.8	21
69	K ₂ MnF ₆ as a precursor for saturated red fluoride phosphors: the struggle for structural stability. Journal of Materials Chemistry C, 2017, 5, 10761-10769.	5.5	34
70	Probing the local structure of the near-infrared emitting persistent phosphor LiGa ₅ O ₈ :Cr ³⁺ . Journal of Materials Chemistry C, 2017, 5, 10861-10868.	5.5	65
71	Sol~ ²⁺ Gel Synthesis of CaTiO ₃ :Pr ³⁺ Red Phosphors: Tailoring the Synthetic Parameters for Luminescent and Afterglow Applications. ACS Omega, 2017, 2, 4972-4981.	3.5	36
72	Oxidation and Luminescence Quenching of Europium in BaMgAl ₁₀ O ₁₇ Blue Phosphors. Chemistry of Materials, 2017, 29, 10122-10129.	6.7	41

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73	K ₂ SiF ₆ :Mn ⁴⁺ as a red phosphor for displays and warm-white LEDs: a review of properties and perspectives. Optical Materials Express, 2017, 7, 3332.	3.0	186
74	Samarium Monosulfide (SmS): Reviewing Properties and Applications. Materials, 2017, 10, 953.	2.9	22
75	LaAlO ₃ :Mn ⁴⁺ as Near-Infrared Emitting Persistent Luminescence Phosphor for Medical Imaging: A Charge Compensation Study. Materials, 2017, 10, 1422.	2.9	61
76	(Invited) Cr ³⁺ and Mn ⁴⁺ : Dopants for Near-Infrared Emitting Persistent Phosphors. ECS Meeting Abstracts, 2017, , .	0.0	0
77	Optically stimulated detrapping during charging of persistent phosphors. Optical Materials Express, 2016, 6, 844.	3.0	33
78	Stability of switchable SmS for piezoresistive applications. , 2016, , .		4
79	Nonequivalent lanthanide defects: Energy level modeling. Optical Materials, 2016, 61, 50-58.	3.6	6
80	Fe ^{II} Spin Transition Materials Including an Amino-ester 1,2,4-Triazole Derivative, Operating at, below, and above Room Temperature. Inorganic Chemistry, 2016, 55, 4278-4295.	4.0	39
81	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
82	Investigation of the quenching mechanisms of Tb ³⁺ doped scheelites. Journal of Luminescence, 2016, 173, 263-273.	3.1	12
83	Photoluminescence and phase related cathodoluminescence dynamics of Pr ³⁺ doped in a double phase of ZnTa ₂ O ₆ and ZnAl ₂ O ₄ . Ceramics International, 2016, 42, 5497-5503.	4.8	4
84	Cathodoluminescence mapping and thermoluminescence of Pr ³⁺ doped in a CaTiO ₃ /CaGa ₂ O ₄ composite phosphor. Ceramics International, 2016, 42, 9779-9784.	4.8	11
85	Structure, photoluminescence and thermoluminescence study of a composite ZnTa ₂ O ₆ /ZnGa ₂ O ₄ compound doped with Pr ³⁺ . Optical Materials, 2016, 55, 68-72.	3.6	8
86	Thermal quenching, cathodoluminescence and thermoluminescence study of Eu ²⁺ doped CaS powder. Journal of Alloys and Compounds, 2016, 657, 787-793.	5.5	33
87	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
88	Paper No S6.4: K ₂ SiF ₆ :Mn ⁴⁺ as a Red Phosphor for Remote Phosphor LEDs. Digest of Technical Papers SID International Symposium, 2015, 46, 28-28.	0.3	0
89	Persistent Phosphors. Fundamental Theories of Physics, 2015, , 1-108.	0.3	29
90	Au@UiO-66: a base free oxidation catalyst. RSC Advances, 2015, 5, 22334-22342.	3.6	59

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91	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
92	Energy level modeling of lanthanide materials: review and uncertainty analysis. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19058-19078.	2.8	60
93	$\text{KEu}(\text{MoO}_4)_2$: Polymorphism, Structures, and Luminescent Properties. <i>Chemistry of Materials</i> , 2015, 27, 5519-5530.	6.7	29
94	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
95	Absolute determination of photoluminescence quantum efficiency using an integrating sphere setup. <i>Review of Scientific Instruments</i> , 2014, 85, 123115.	1.3	96
96	Energy transfer in Eu^{3+} doped scheelites: use as thermographic phosphor. <i>Optics Express</i> , 2014, 22, A961.	3.4	84
97	Crystal Structure and Luminescent Properties of $\text{R}_2\text{Eu}(\text{MoO}_4)_3$ ($\text{R} = \text{Gd}, \text{Sm}$) Red Phosphors. <i>Chemistry of Materials</i> , 2014, 26, 7124-7136.	6.7	28
98	Low temperature crystallization of yttrium orthoferrite by organic acid-assisted sol-gel synthesis. <i>Materials Letters</i> , 2014, 114, 136-139.	2.6	10
99	Solvent-regulated assemblies of 1D lanthanide coordination polymers with the tricarboxylate ligand. <i>Dalton Transactions</i> , 2014, 43, 3462.	3.3	14
100	Incommensurate modulated structures and luminescence in scheelites. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C177-C177.	0.1	0
101	Photoreceptor-Mediated Bending towards UV-B in Arabidopsis. <i>Molecular Plant</i> , 2014, 7, 1041-1052.	8.3	68
102	Plasma enhanced atomic layer deposition of Ga_2O_3 thin films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19232-19238.	10.3	77
103	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
104	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
105	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
106	An ambient temperature aqueous sol-gel processing of efficient nanocrystalline doped TiO_2 -based photocatalysts for the degradation of organic pollutants. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 557-570.	2.4	29
107	Persistent luminescence in nitride and oxynitride phosphors: A review. <i>Optical Materials</i> , 2014, 36, 1913-1919.	3.6	85
108	Hydrophilic, Bright CuInS_2 Quantum Dots as Cd-Free Fluorescent Labels in Quantitative Immunoassay. <i>Langmuir</i> , 2014, 30, 7567-7575.	3.5	81

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109	Luminescence of ytterbium in CaS and SrS. <i>Journal of Luminescence</i> , 2014, 154, 445-451.	3.1	18
110	Time resolved microscopic cathodoluminescence spectroscopy for phosphor research. <i>Physica B: Condensed Matter</i> , 2014, 439, 35-40.	2.7	16
111	Thermal quenching at the microscopic level in multi-phase thiosilicate phosphors. <i>Optical Materials</i> , 2013, 35, 1970-1975.	3.6	9
112	First-principles and experimental characterization of the electronic and optical properties of CaS and CaO. <i>Optical Materials</i> , 2013, 35, 1477-1480.	3.6	13
113	Incommensurate Modulation and Luminescence in the $\text{CaGd}_2\text{Eu}_2(\text{MoO}_4)_4(\text{WO}_4)_4(\text{O}_x\text{O}_y)_2$ Red Phosphors. <i>Chemistry of Materials</i> , 2013, 25, 4387-4395.	3.9	6
114	A XAS study of the luminescent Eu centers in thiosilicate phosphors. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8678.	2.8	17
115	Lanthanide coordination polymers constructed from 5-(4-pyridyl)-isophthalic acid: Synthesis, structure and photoluminescent properties. <i>Inorganic Chemistry Communication</i> , 2013, 35, 221-225.	3.9	6
116	Revealing trap depth distributions in persistent phosphors. <i>Physical Review B</i> , 2013, 87, .	3.2	330
117	$\text{Cs}_7\text{Nd}_{11}(\text{SeO}_3)_{12}\text{Cl}_{16}$: First Noncentrosymmetric Structure among Alkaline-Metal Lanthanide Selenite Halides. <i>Inorganic Chemistry</i> , 2013, 52, 3611-3619.	4.0	19
118	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
119	Reactive sputter deposition of Al doped TiO _x thin films using titanium targets with aluminium inserts. <i>Journal of Alloys and Compounds</i> , 2013, 578, 44-49.	5.5	5
120	Bipyridine-Based Nanosized Metal-Organic Framework with Tunable Luminescence by a Postmodification with Eu(III): An Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11302-11310.	3.1	85
121	Origin of saturated green emission from europium in zinc thiogallate. <i>Optical Materials Express</i> , 2013, 3, 1338.	3.0	17
122	Broadband Luminescence in Rare Earth Doped Sr ₂ Si ₄ S ₄ : Relating Energy Levels of Ce ³⁺ and Eu ²⁺ . <i>Materials</i> , 2013, 6, 3663-3675.	2.9	13
123	Persistent Luminescence in Non-Eu ²⁺ -Doped Compounds: A Review. <i>Materials</i> , 2013, 6, 2789-2818.	2.9	311
124	Valence states of europium in CaAl ₂₀ Eu phosphors. <i>Optical Materials Express</i> , 2012, 2, 321.	3.0	60
125	Focus issue introduction: persistent phosphors. <i>Optical Materials Express</i> , 2012, 2, 452.	3.0	53
126	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

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127	Sol-gel preparation of pure and doped TiO ₂ films for the photocatalytic oxidation of ethanol in air. Journal of Sol-Gel Science and Technology, 2012, 63, 526-536.	2.4	11
128	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
129	Hydrothermal synthesis, crystal structure and properties of Ni(II)-4f complexes based on 1H-benzimidazole-5,6-dicarboxylic acid. Dalton Transactions, 2012, 41, 7670.	3.3	30
130	Optimized deposition of TiO ₂ thin films produced by a non-aqueous sol-gel method and quantification of their photocatalytic activity. Chemical Engineering Journal, 2012, 195-196, 347-358.	12.7	42
131	Hydrothermal synthesis, crystal structure and properties of three-dimensional Co(II)-4f heterometallic-organic frameworks. CrystEngComm, 2012, 14, 8689.	2.6	9
132	Two new Ln/Ag heterometallic-based conversion phosphors constructed by 1H-benzimidazole-5,6-dicarboxylic acid. CrystEngComm, 2012, 14, 1753.	2.6	12
133	Mechanoluminescence in BaSi ₂ O ₂ N ₂ :Eu. Acta Materialia, 2012, 60, 5494-5500.	7.9	127
134	Thermal quenching and luminescence lifetime of saturated green Sr ^{1-x} EuxGa ₂ S ₄ phosphors. Optical Materials, 2012, 34, 1902-1907.	3.6	30
135	Extending the afterglow in CaAl ₂ O ₄ :Eu,Nd persistent phosphors by electron beam annealing. Optical Materials Express, 2012, 2, 1306.	3.0	35
136	Kinetic study of p-nitrophenol photodegradation with modified TiO ₂ xerogels. Chemical Engineering Journal, 2012, 191, 441-450.	12.7	35
137	Solvothermal synthesis, crystal structure, and properties of lanthanide-organic frameworks based on thiophene-2,5-dicarboxylic acid. Dalton Transactions, 2011, 40, 11581.	3.3	57
138	Selecting Conversion Phosphors for White Light-Emitting Diodes. Journal of the Electrochemical Society, 2011, 158, R37.	2.9	655
139	Luminescence and x-ray absorption measurements of persistent SrAl ₂ O ₄ :Eu ²⁺ phosphors. Evidence for valence state changes. Physical Review B, 2011, 84, 045111.	3.2	105
140	Photometry in the dark: time dependent visibility of low intensity light sources: erratum. Optics Express, 2011, 19, 18808.	3.4	4
141	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
142	(Co, Nb, Sm)-Doped Tin Dioxide Varistor Ceramics Sintered Using Nanopowders Prepared by Coprecipitation Method. Journal of the American Ceramic Society, 2011, 94, 3249-3255.	3.8	14
143	Kinetic modeling of the total oxidation of propane over Cu- and Ce-based catalysts. Journal of Catalysis, 2011, 283, 75-88.	6.2	21
144	Optical and structural properties of aluminium oxide thin films prepared by a non-aqueous sol-gel technique. Journal of Sol-Gel Science and Technology, 2011, 59, 327-333.	2.4	33

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145	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
146	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
147	Resonance modes in rare earth doped microcrystals. <i>Optical Materials</i> , 2011, 33, 1128-1130.	3.6	3
148	Improvement in the methylene blue adsorption capacity and photocatalytic activity of H ₂ -reduced rutile-TiO ₂ caused by Ni(II)porphyrin preadsorption. <i>Applied Catalysis B: Environmental</i> , 2011, , .	20.2	1
149	Inkjet printing of photocatalytically active TiO ₂ thin films from water based precursor solutions. <i>Journal of the European Ceramic Society</i> , 2011, 31, 1067-1074.	5.7	55
150	Characterization of the aqueous peroxomethod for the synthesis of transparent TiO ₂ thin films. <i>Thin Solid Films</i> , 2011, 519, 3475-3479.	1.8	8
151	Rare earth doped core-shell particles as phosphor for warm-white light-emitting diodes. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	38
152	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
153	The total oxidation of propane over supported Cu and Ce oxides: A comparison of single and binary metal oxides. <i>Journal of Catalysis</i> , 2010, 272, 109-120.	6.2	63
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	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
156	Kinetic modeling of the total oxidation of propane over CuO-CeO ₂ / γ -Al ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 2010, 95, 26-38.	20.2	67
157	Time-resolved operando X-ray absorption study of CuO-CeO ₂ /Al ₂ O ₃ catalyst during total oxidation of propane. <i>Applied Catalysis B: Environmental</i> , 2010, 97, 381-388.	20.2	20
158	TAP study on the active oxygen species in the total oxidation of propane over a CuO-CeO ₂ / γ -Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2010, 157, 49-54.	4.4	31
159	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
160	Structure and luminescence of (Ca,Sr)2SiS ₄ :Eu ²⁺ phosphors. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 085401.	2.8	29
161	Luminescence in Sulfides: A Rich History and a Bright Future. <i>Materials</i> , 2010, 3, 2834-2883.	2.9	228
162	Photometry in the dark: time dependent visibility of low intensity light sources. <i>Optics Express</i> , 2010, 18, 26293.	3.4	40

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163	Persistent Luminescence in Eu ²⁺ -Doped Compounds: A Review. <i>Materials</i> , 2010, 3, 2536-2566.	2.9	856
164	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
165	Structure of F ²⁺ centers in K ₂ YF ₅ and their relation to thermoluminescence below room temperature. <i>Physical Review B</i> , 2009, 79, .	3.2	3
166	Templated growth of textured and luminescent CaS:Eu thin films by a low-temperature solvothermal process. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 095306.	2.8	8
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