Terry G Ireland

List of Publications by Year
in descending order

66 papers	1,511 citations	430874 18 h-index	330143 37 g-index
67 all docs	67 docs citations	67 times ranked	1295 citing authors

#	Article	IF	Citations
1	Studies on the binding of nitrogenous bases to protoporphyrin IX iron(II) in aqueous solution at high pH values. Journal of Biological Inorganic Chemistry, 2022, 27, 297-313.	2.6	2
2	Early defect identification for micro lightâ€emitting diode displays via photoluminescent and cathodoluminescent imaging. Journal of the Society for Information Display, 2021, 29, 264-274.	2.1	6
3	37â€4: Micro LED Defect Analysis via Photoluminescent and Cathodoluminescent Imaging. Digest of Technical Papers SID International Symposium, 2020, 51, 532-535.	0.3	6
4	Laser-Activated Luminescence of BaAl₂O₄:Eu. ECS Journal of Solid State Science and Technology, 2020, 9, 026001.	1.8	7
5	Photoluminescence and cathodoluminescence of BaAl₂O₄:Eu²⁺ and undoped BaAl₂O₄: evidence for F-centres. Optical Materials Express, 2020, 10, 1962.	3.0	6
6	Crystal structure, photoluminescence and cathodoluminescence of Ba_{1-x}Sr_xAl₂O₄ doped with Eu²⁺. Optical Materials Express, 2020, 10, 1951.	3.0	3
7	Crystal structure, photoluminescence and cathodoluminescence of Sr_{1-x}Ca_xAl₂O₄ doped with Eu²⁺. Optical Materials Express, 2019, 9, 2175.	3.0	13
8	Improved photovoltaic performance of monocrystalline silicon solar cell through luminescent downâ€converting Gd₂O₂S:Tb³⁺ phosphor. Progress in Photovoltaics: Research and Applications, 2019, 27, 640-651.	8.1	27
9	Luminescence properties of Î±-Ag2WO4 nanorods co-doped with Li+ and Eu3+ cations and their effects on its structure. Journal of Luminescence, 2019, 206, 442-454.	3.1	27
10	Crystal structure, photoluminescence and cathodoluminescence of Ba1-xCaxAl2O4 doped with Eu2+. Optical Materials Express, 2019, 9, 3895.	3.0	2
11	Reassignment of electronic transitions in the laser-activated spectrum of nanocrystalline Y2O3:Er3+. Journal of Luminescence, 2018, 196, 337-346.	3.1	8
12	Cathodoluminescence of Y₂O₃:Ln³⁺ (Ln = Tb, Er and Tm) and Y₂O₃:Bi³⁺ nanocrystalline particles at 200 keV. RSC Advances, 2018, 8, 396-405.	3.6	7
13	ZnCdS:Cu,Al,Cl: A Near Infra-Red Emissive Family of Phosphors for Marking, Coding, and Identification. ECS Journal of Solid State Science and Technology, 2018, 7, R3057-R3063.	1.8	2
14	On the Photo- and Cathodoluminescence of LaB₃O₆:Gd,Bi, Y₃Al₅O₁₂:Pr, Y₃Al₅O₁₂:Gd, Lu₃Al₅O₁₂:Pr, and Lu₃Al₅O₁₂:Gd. ECS Journal of Solid State Science and Technology, 2018, 7, R206-R214.	1.8	8
15	Ultrathin Y2O3:Eu3+nanodiscs: spectroscopic investigations and evidence for reduced concentration quenching. Nanotechnology, 2018, 29, 455703.	2.6	5
16	Development of high temperature, radiation hard detectors based on diamond. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 128-131.	1.6	7
17	Low temperature micro Raman and laser induced upconversion and downconversion spectra of europium doped silver tungstate Ag2âˆ’3xEuxWO4 nanorods. Journal of Materials Science: Materials in Electronics, 2017, 28, 7029-7035.	2.2	13
18	Structure and luminescence analyses of simultaneously synthesised (Lu_{1âˆ’x}Gd_x)₂O₂S:Tb³⁺ and (Lu_{1âˆ’x}Gd_x)₂O₃:Tb³⁺. Dalton Transactions, 2017, 46, 7693-7707.	3.3	11

#	Article	IF	Citations
19	Pâ€‑121: Subâ€micrometre Phosphor Preparation for Next Generation Displays. Digest of Technical Papers SID International Symposium, 2017, 48, 1711-1714.	0.3	5
20	Cathodoluminescence and Photoluminescence of YPO₄:Pr³⁺, Y₂SiO₅:Pr³⁺, YBO₃:Pr³⁺, and YPO₄:Bi³⁺. ECS Journal of Solid State Science and Technology, 2017, 6, R47-R52.	1.8	34
21	New Developments in Cathodoluminescence Spectroscopy for the Study of Luminescent Materials. Materials, 2017, 10, 312.	2.9	5
22	Ultraviolet and blue cathodoluminescence from cubic Y₂O₃and Y₂O₃:Eu³⁺generated in a transmission electron microscope. Journal of Materials Chemistry C, 2016, 4, 7026-7034.	5.5	22
23	Investigating the Emission Characteristics of Single Crystal YAG When Activated by High Power Laser Beams. ECS Journal of Solid State Science and Technology, 2016, 5, R172-R177.	1.8	10
24	Nanosized (Y_{1âˆ’x}Gd_x)₂O₂S:Tb³⁺ particles: synthesis, photoluminescence, cathodoluminescence studies and a model for energy transfer in establishing the roles of Tb³⁺ and Gd³⁺. RSC Advances, 2016, 6, 42561-42571.	3.6	9
25	Photoluminescence, cathodoluminescence and micro-Raman investigations of monoclinic nanometre-sized Y2O3 and Y2O3:Eu3+. Journal of Materials Chemistry C, 2016, 4, 8930-8938.	5.5	14
26	Red Shift of CT-Band in Cubic Y₂O₃:Eu³⁺upon Increasing the Eu³⁺Concentration. ECS Journal of Solid State Science and Technology, 2016, 5, R59-R66.	1.8	17
27	Symmetry-Related Transitions in the Photoluminescence and Cathodoluminescence Spectra of Nanosized Cubic Y₂O₃:Tb³⁺. ECS Journal of Solid State Science and Technology, 2015, 4, R145-R152.	1.8	12
28	Cathodoluminescence studies of phosphors in a scanning electron microscope. Journal of Physics: Conference Series, 2015, 619, 012051.	0.4	0
29	Paper No S10.4: Transmission Electron Microscope Study of Symmetry-related Transitions in Cubic Y2O3:Tb3+. Digest of Technical Papers SID International Symposium, 2015, 46, 45-45.	0.3	0
30	Materials Suitable for preparing Inorganic Nanocasts of butterflies and other insects. Journal of Physics: Conference Series, 2015, 619, 012050.	0.4	0
31	Cathodoluminescence of Nanocrystalline Y₂O₃:Eu³⁺with Various Eu³⁺Concentrations. ECS Journal of Solid State Science and Technology, 2015, 4, R1-R9.	1.8	22
32	Symmetry-Related Transitions in the Spectrum of Nanosized Cubic Y₂O₃:Tb³⁺. ECS Journal of Solid State Science and Technology, 2015, 4, R105-R113.	1.8	14
33	Contrast and decay of cathodoluminescence from phosphor particles in a scanning electron microscope. Ultramicroscopy, 2015, 157, 27-34.	1.9	8
34	Studies on the Orientation of ACEL ZnS:Cu Particles in Applied AC Fields. ECS Journal of Solid State Science and Technology, 2014, 3, R25-R32.	1.8	10
35	Cathodoluminescence of Double Layers of Phosphor Particles. ECS Journal of Solid State Science and Technology, 2014, 3, R53-R59.	1.8	6
36	Cathodoluminescence of Powder Layers of Nanometer-Sized Y₂O₃:Eu and Micrometer-Sized ZnO:Zn Phosphor Particles. ECS Journal of Solid State Science and Technology, 2013, 2, R201-R207.	1.8	15

#	Article	IF	Citations
37	63.3: Enhanced Cathodoluminescence of a Double Layer of two Phosphors. Digest of Technical Papers SID International Symposium, 2012, 43, 861-864.	0.3	2
38	AC powder electroluminescent displays. Journal of the Society for Information Display, 2011, 19, 798-810.	2.1	27
39	Achieving structured colour in inorganic systems: Learning from the natural world. Optics and Laser Technology, 2011, 43, 401-409.	4.6	5
40	Raman Scattering from Industrially Prepared Nanometer Sized Particles of Monoclinic and Cubic Phases of Yttrium Europium Oxide Phosphors. , 2010, , .		0
41	A novel approach for the preparation of discrete phosphor nanoparticles. Proceedings of SPIE, 2010, , .	0.8	0
42	A Study of Small Particle Yttrium Oxide Type Phosphors prepared from Solution using a Sacrificial Micellar Phase as a Combustion Fuel. , 2010, , .		0
43	Structure and Morphology of ACEL ZnS:Cu,Cl Phosphor Powder Etched by Hydrochloric Acid. Journal of the Electrochemical Society, 2009, 156, J326.	2.9	10
44	Characterisation of Gd2O2S:Pr phosphor screens for water window X-ray detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 434-439.	1.6	17
45	Experimental and theoretical luminous efficacies of phosphors used in combination with blueâ€emitting LEDs for lighting and backlighting. Journal of the Society for Information Display, 2008, 16, 359-366.	2.1	7
46	Light-emitting nanocasts formed from bio-templates: FESEM and cathodoluminescent imaging studies of butterfly scale replicas. Nanotechnology, 2008, 19, 095302.	2.6	23
47	Low-voltage cathodoluminescent red emitting phosphors for field emission displays. Journal of Luminescence, 2007, 122-123, 562-566.	3.1	17
48	Stimulation of visible luminescence by irradiation of a novel phosphor screen with an infrared beam. Optical Engineering, 2006, 45, 024001.	1.0	3
49	P-80: A New Oxide/Oxysulfide Based Phosphor Triad and High-Efficiency Green-Emitting (Y,Gd)[sub 2]O[sub 2]S:Tb Phosphor for FED Applications. Digest of Technical Papers SID International Symposium, 2005, 36, 594.	0.3	10
50	Novel nano-structured phosphor materials cast from natural<i>Morpho</i>butterfly scales. Journal of Modern Optics, 2005, 52, 999-1007.	1.3	31
51	The use of a novel phosphor screen for visualising the infrared beam of a gas detector. , 2005, 5826, 425.		0
52	Fine Control of the Dopant Level in Cubic Y[sub 2]O[sub 3]:Eu[sup 3+] Phosphors. Journal of the Electrochemical Society, 2004, 151, H66.	2.9	20
53	Facile method of infilling photonic silica templates with rare earth element oxide phosphor precursors. Journal of Materials Research, 2004, 19, 1656-1661.	2.6	16
54	Yttrium Oxide Upconverting Phosphors. Part 4:â€‰ Upconversion Luminescent Emission from Thulium-Doped Yttrium Oxide under 632.8-nm Light Excitation. Journal of Physical Chemistry B, 2003, 107, 1548-1553.	2.6	18

#	Article	IF	Citations
55	Photonic phosphors based on cubic Y2O3:Tb3Âinfilled into a synthetic opal lattice. Journal of Optics, 2003, 5, S81-S85.	1.5	23
56	A Synthetic Method for the Production of a Range of Particle Sizes for Y[sub 2]O[sub 3]:Eu Phosphors Using a Copolymer Microgel of NIPAM and AMPS. Journal of the Electrochemical Society, 2002, 149, H53.	2.9	15
57	Rare-earth element anti-Stokes emission from three inverse photonic lattices. Journal of Modern Optics, 2002, 49, 965-976.	1.3	12
58	A New Application for Microgels:Â Novel Method for the Synthesis of Spherical Particles of the Y2O3:Eu Phosphor Using a Copolymer Microgel of NIPAM and Acrylic Acid. Langmuir, 2001, 17, 7145-7149.	3.5	127
59	The Effect of Particle Morphology and Crystallite Size on the Upconversion Luminescence Properties of Erbium and Ytterbium Co-doped Yttrium Oxide Phosphors. Journal of Physical Chemistry B, 2001, 105, 948-953.	2.6	236
60	Up-conversion emission phosphors based on doped silica glass ceramics prepared by solâ€"gel methods: control of silica glass ceramics containing anatase and rutile crystallites. Journal of Materials Chemistry, 2001, 11, 1447-1451.	6.7	21
61	Yttrium Oxide Upconverting Phosphors. Part 2:â€‰ Temperature Dependent Upconversion Luminescence Properties of Erbium in Yttrium Oxide. Journal of Physical Chemistry B, 2001, 105, 7200-7204.	2.6	48
62	Yttrium Oxide Upconverting Phosphors. 3. Upconversion Luminescent Emission from Europium-Doped Yttrium Oxide under 632.8 nm Light Excitation. Journal of Physical Chemistry B, 2001, 105, 9107-9112.	2.6	58
63	The role of vaterite and aragonite in the formation of pseudo-biogenic carbonate structures: implications for Martian exobiology. Geochimica Et Cosmochimica Acta, 2000, 64, 2719-2725.	3.9	56
64	Engineering phosphors for field emission displays. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 750.	1.6	147
65	Facile Self-Assembly of Yttrium Oxide Europium Phosphor from Solution Using a Sacrificial Micellar Phase. Electrochemical and Solid-State Letters, 1999, 2, 52.	2.2	19
66	Control of â€‰Yâ€‰2â€‰Oâ€‰3:Eu Spherical Particle Phosphor Size, Assembly Properties, and Performance for FED and HDTV. Journal of the Electrochemical Society, 1999, 146, 4654-4658.	2.9	180