

George Fern

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64 papers	1,257 citations	18 h-index	33 g-index
71 ext. papers	1,343 ext. citations	2.9 avg, IF	3.91 L-index

#	Paper	IF	Citations
64	Luminescence properties of BaAg_2WO_4 nanorods co-doped with Li^+ and Eu^{3+} cations and their effects on its structure. <i>Journal of Luminescence</i> , 2019 , 206, 442-454	3.8	18
63	Reassignment of electronic transitions in the laser-activated spectrum of nanocrystalline $\text{Y}_2\text{O}_3:\text{Er}^{3+}$. <i>Journal of Luminescence</i> , 2018 , 196, 337-346	3.8	6
62	Cathodoluminescence of $\text{Y}_2\text{O}_3:\text{Ln}^{3+}$ (Ln = Tb, Er and Tm) and $\text{Y}_2\text{O}_3:\text{Bi}^{3+}$ nanocrystalline particles at 200 keV. <i>RSC Advances</i> , 2018 , 8, 396-405	3.7	3
61	$\text{ZnCdS}:\text{Cu},\text{Al},\text{Cl}$: A Near Infra-Red Emissive Family of Phosphors for Marking, Coding, and Identification. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R3057-R3063	2	2
60	Effective MgO-doped TiO_2 nanoaerogel coating for crystalline silicon solar cells improvement. <i>International Journal of Energy Research</i> , 2018 , 42, 3915-3927	4.5	7
59	On the Photo- and Cathodoluminescence of $\text{LaB}_3\text{O}_6:\text{Gd},\text{Bi}$, $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Pr}$, $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Gd}$, $\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Pr}$, and $\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Gd}$. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R206-R214 ²		5
58	Ultrathin $\text{YO}:\text{Eu}$ nanodiscs: spectroscopic investigations and evidence for reduced concentration quenching. <i>Nanotechnology</i> , 2018 , 29, 455703	3.4	4
57	Development of high temperature, radiation hard detectors based on diamond. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 845, 128-131	1.2	6
56	Diamond based detectors for high temperature, high radiation environments. <i>Journal of Instrumentation</i> , 2017 , 12, C01066-C01066	1	14
55	AC electroluminescent lamps: shedding some light on their mysteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 7006-7012	2.1	6
54	Low temperature micro Raman and laser induced upconversion and downconversion spectra of europium doped silver tungstate $\text{Ag}_2\text{BxEu}_x\text{WO}_4$ nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 7029-7035	2.1	10
53	Structure and luminescence analyses of simultaneously synthesised $(\text{LuGd})\text{OS}:\text{Tb}$ and $(\text{LuGd})\text{O}:\text{Tb}$. <i>Dalton Transactions</i> , 2017 , 46, 7693-7707	4.3	8
52	Cathodoluminescence and Photoluminescence of $\text{YPO}_4:\text{Pr}^{3+}$, $\text{Y}_2\text{SiO}_5:\text{Pr}^{3+}$, $\text{YBO}_3:\text{Pr}^{3+}$, and $\text{YPO}_4:\text{Bi}^{3+}$. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, R47-R52	2	21
51	New Developments in Cathodoluminescence Spectroscopy for the Study of Luminescent Materials. <i>Materials</i> , 2017 , 10,	3.5	5
50	Evaluation of Thermally Stable Phosphor Screens for Application in Laser Diode Excited High Brightness White Light Modules. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R3001-R3006 ²		11
49	Photoluminescence, cathodoluminescence and micro-Raman investigations of monoclinic nanometre-sized Y_2O_3 and $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8930-8938	7.1	7
48	Red Shift of CT-Band in Cubic $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$ upon Increasing the Eu^{3+} Concentration. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R59-R66	2	12

47	Ultraviolet and blue cathodoluminescence from cubic Y ₂ O ₃ and Y ₂ O ₃ :Eu ³⁺ generated in a transmission electron microscope. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7026-7034	7.1	18
46	Investigating the Emission Characteristics of Single Crystal YAG When Activated by High Power Laser Beams. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R172-R177	2	7
45	Laser Diode Induced Lighting Modules. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R26-R33		6
44	Nanosized (Y _{1-x} Gd _x) ₂ O ₂ S:Tb ³⁺ particles: synthesis, photoluminescence, cathodoluminescence studies and a model for energy transfer in establishing the roles of Tb ³⁺ and Gd ³⁺ . <i>RSC Advances</i> , 2016 , 6, 42561-42571	3.7	8
43	Symmetry-Related Transitions in the Spectrum of Nanosized Cubic Y ₂ O ₃ :Tb ³⁺ . <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, R105-R113	2	14
42	Contrast and decay of cathodoluminescence from phosphor particles in a scanning electron microscope. <i>Ultramicroscopy</i> , 2015 , 157, 27-34	3.1	7
41	Symmetry-Related Transitions in the Photoluminescence and Cathodoluminescence Spectra of Nanosized Cubic Y ₂ O ₃ :Tb ³⁺ . <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, R145-R152	2	11
40	Cathodoluminescence and electron microscopy of red quantum dots used for display applications. <i>Journal of the Society for Information Display</i> , 2015 , 23, 50-55	2.1	9
39	Cathodoluminescence studies of phosphors in a scanning electron microscope. <i>Journal of Physics: Conference Series</i> , 2015 , 619, 012051	0.3	
38	Photovoltaic cells energy performance enhancement with down-converting photoluminescence phosphors. <i>International Journal of Energy Research</i> , 2015 , 39, n/a-n/a	4.5	2
37	Materials Suitable for preparing Inorganic Nanocasts of butterflies and other insects. <i>Journal of Physics: Conference Series</i> , 2015 , 619, 012050	0.3	
36	Cathodoluminescent images and spectra of single crystals of Y ₂ O ₂ S:Tb ³⁺ and Gd ₂ O ₂ S:Tb ³⁺ nanometer sized phosphor crystals excited in a field emission scanning transmission electron microscope. <i>Journal of Physics: Conference Series</i> , 2015 , 619, 012049	0.3	1
35	Effects of the host lattice and doping concentration on the colour of Tb ³⁺ cation emission in Y ₂ O ₂ S:Tb ³⁺ and Gd ₂ O ₂ S:Tb ³⁺ nanometer sized phosphor particles. <i>Nanoscale</i> , 2013 , 5, 8640-6	7.7	43
34	Contrasting behaviour of the co-activators in the luminescence spectra of Y ₂ O ₂ S:Tb ³⁺ ,Er ³⁺ nanometre sized particles under UV and red light excitation. <i>Nanoscale</i> , 2013 , 5, 1091-6	7.7	20
33	A novel method for the preparation of non-agglomerated nanometre sized particles of lanthanum phosphate phosphors utilising a high surface area support in the firing process. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21529		5
32	Surface plasmon resonance imaging detection of silver nanoparticle-tagged immunoglobulin. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1204-11	4.1	29
31	Achieving structured colour in inorganic systems: Learning from the natural world. <i>Optics and Laser Technology</i> , 2011 , 43, 401-409	4.2	4
30	Structure and Morphology of ACCEL ZnS:Cu,Cl Phosphor Powder Etched by Hydrochloric Acid. <i>Journal of the Electrochemical Society</i> , 2009 , 156, J326	3.9	9

29	Characterisation of Gd ₂ O ₂ S:Pr phosphor screens for water window X-ray detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 600, 434-439	1.2	14
28	Light-emitting nanocasts formed from bio-templates: FESEM and cathodoluminescent imaging studies of butterfly scale replicas. <i>Nanotechnology</i> , 2008 , 19, 095302	3.4	21
27	Low-voltage cathodoluminescent red emitting phosphors for field emission displays. <i>Journal of Luminescence</i> , 2007 , 122-123, 562-566	3.8	17
26	P-84: Experimental and Theoretical Luminous Efficacies of Phosphors used for Producing White Light from Blue-emitting LEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2007 , 38, 515-518 ^{0.5}		
25	Stimulation of visible luminescence by irradiation of a novel phosphor screen with an infrared beam. <i>Optical Engineering</i> , 2006 , 45, 024001	1.1	2
24	Oxygen and sulfur isotopic composition of volcanic sulfate aerosol at the point of emission. <i>Journal of Geophysical Research</i> , 2006 , 111,		48
23	Investigation of near-source basaltic glasses using ⁵⁷ Fe Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 2006 , 166, 705-708	0.8	1
22	Redox properties of a green emitting ZnGa ₂ O ₄ :Mn low voltage cathodoluminescent phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2006 , 17, 745-753	2.1	2
21	UV photoluminescence from small particles of calcium cadmium sulfide solid solutions. <i>Journal of Optics</i> , 2005 , 7, S265-S269		5
20	Novel nano-structured phosphor materials cast from natural Morpho butterfly scales. <i>Journal of Modern Optics</i> , 2005 , 52, 999-1007	1.1	27
19	The use of a novel phosphor screen for visualising the infrared beam of a gas detector 2005 , 5826, 425		
18	A study of the binding of the biologically important hematin molecule to a novel imidazole containing poly(N-isopropylacrylamide) microgel. <i>Reactive and Functional Polymers</i> , 2004 , 58, 165-173	4.6	17
17	Photonic phosphors based on cubic Y ₂ O ₃ :Tb ³⁺ infilled into a synthetic opal lattice. <i>Journal of Optics</i> , 2003 , 5, S81-S85		23
16	Yttrium Oxide Upconverting Phosphors. Part 4: Upconversion Luminescent Emission from Thulium-Doped Yttrium Oxide under 632.8-nm Light Excitation. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 1548-1553	3.4	18
15	High Pressure Mössbauer Spectroscopic Studies of Molecular Solids. The Importance of Free Space in Molecular Lattices. <i>Hyperfine Interactions</i> , 2002 , 141/142, 109-117	0.8	1
14	An Interesting Spin-State Transition for [Fe(PPIX)OH] Induced by High Pressure in a Diamond Anvil Cell. <i>Hyperfine Interactions</i> , 2002 , 144/145, 359-363	0.8	2
13	A Synthetic Method for the Production of a Range of Particle Sizes for Y ₂ O ₃ :Eu Phosphors Using a Copolymer Microgel of NIPAM and AMPS. <i>Journal of the Electrochemical Society</i> , 2002 , 149, H53	3.9	15
12	Rare-earth element anti-Stokes emission from three inverse photonic lattices. <i>Journal of Modern Optics</i> , 2002 , 49, 965-976	1.1	12

- 11 Electrostatic field effects manifested in ferrocenyl metal complexes and the crystal structure of $[\text{Fe}(\eta\text{-C}_5\text{H}_5)(\eta\text{-C}_5\text{H}_4\text{CH}_2\text{NNHC}_5\text{H}_4\text{N})]\text{HCl}$. *Journal of Organometallic Chemistry*, **2001**, 637-639, 311-317^{2,3} 3
- 10 A New Application for Microgels: Novel Method for the Synthesis of Spherical Particles of the $\text{Y}_2\text{O}_3\text{:Eu}$ Phosphor Using a Copolymer Microgel of NIPAM and Acrylic Acid. *Langmuir*, **2001**, 17, 7145-7149⁴ 123
- 9 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 3.4 220
- 8 Up-conversion emission phosphors based on doped silica glass ceramics prepared by sol-gel methods: control of silica glass ceramics containing anatase and rutile crystallites. *Journal of Materials Chemistry*, **2001**, 11, 1447-1451 19
- 7 Novel seven coordination geometry of Sn(IV): crystal structures of phthalocyaninato bis(undecylcarboxylato)Sn(IV), its Si(IV) analogue, and phthalocyaninato bis(chloro)silicon(IV). The electrochemistry of the Si(IV) analogue and related compounds. *Inorganic Chemistry*, **2001**, 40, 5434-9 5.1 26
- 6 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 3.4 54
- 5 Effects of Temperature and Pressure on the Mössbauer Spectra of Models for the $[\text{Fe}_4\text{S}_4]^{2+}$ Clusters of Iron-Sulfur Proteins and the Structure of $[\text{PPh}_4]_2[\text{Fe}_4\text{S}_4(\text{SCH}_2\text{CO}_2\text{C}_2\text{H}_5)_4]$. *Inorganic Chemistry*, **1999**, 38, 4256-4261 5.1 14
- 4 Control of $\text{Y}_2\text{O}_3\text{:Eu}$ Spherical Particle Phosphor Size, Assembly Properties, and Performance for FED and HDTV. *Journal of the Electrochemical Society*, **1999**, 146, 4654-4658 3.9 168
- 3 Alkyne insertions into the $[\text{Pd}(\eta^5\text{-C}_5\text{H}_5)_2]$ bond of cyclopalladated complexes containing Schiff bases derived from ferrocene. Crystal structures of $[\text{Pd}\{[(\text{EtCCet})_2(\eta\text{-C}_5\text{H}_3\text{CRNCH}_2\text{Ph})]\text{Fe}(\eta\text{-C}_5\text{H}_5)\}\text{Cl}]$ (R = H or Me). *Journal of the Chemical Society Dalton Transactions*, **1995**, 1839-1849 23
- 2 Palladium(II)-induced preferential activation of the $[\text{Csp}^2(\text{phenyl})\text{Pd}]$ bond versus $[\text{Csp}^2(\text{ferrocene})\text{Pd}]$. Crystal structure of $[\text{Fe}(\eta\text{-C}_5\text{H}_5)\{\eta\text{-C}_5\text{H}_4\text{CH}_2\text{NCH}(\text{C}_6\text{H}_3\text{Cl}_{2,6})\}]$. *Journal of the Chemical Society Dalton Transactions*, **1995**, 4053-4058 11
- 1 Effects of the nature of the nitrogen donor atom (sp^2 versus sp^3) upon the properties and chemistry of palladated complexes with $[\text{Pd}(\eta^5\text{-C}_5\text{H}_5)_2]$ bonds. *Journal of the Chemical Society Dalton Transactions*, **1994**, 3039-3046 26