

George Fern

List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 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 | The Effect of Particle Morphology and Crystallite Size on the Upconversion Luminescence Properties of Erbium and Ytterbium Co-doped Yttrium Oxide Phosphors. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 948-953 | 3.4 | 220 |
| 63 | Control of $Y_2O_3:Eu$ Spherical Particle Phosphor Size, Assembly Properties, and Performance for FED and HDTV. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 4654-4658 | 3.9 | 168 |
| 62 | A New Application for Microgels: Novel Method for the Synthesis of Spherical Particles of the $Y_2O_3:Eu$ Phosphor Using a Copolymer Microgel of NIPAM and Acrylic Acid. <i>Langmuir</i> , 2001 , 17, 7145-7149 | 4.9 | 123 |
| 61 | Yttrium Oxide Upconverting Phosphors. 3. Upconversion Luminescent Emission from Europium-Doped Yttrium Oxide under 632.8 nm Light Excitation. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 9107-9112 | 3.4 | 54 |
| 60 | Oxygen and sulfur isotopic composition of volcanic sulfate aerosol at the point of emission. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 48 |
| 59 | Effects of the host lattice and doping concentration on the colour of Tb^{3+} cation emission in $Y_2O_3:Tb^{3+}$ and $Gd_2O_3:Tb^{3+}$ nanometer sized phosphor particles. <i>Nanoscale</i> , 2013 , 5, 8640-6 | 7.7 | 43 |
| 58 | 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 |
| 57 | Novel nano-structured phosphor materials cast from natural Morpho butterfly scales. <i>Journal of Modern Optics</i> , 2005 , 52, 999-1007 | 1.1 | 27 |
| 56 | 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. <i>Inorganic Chemistry</i> , 2001 , 40, 5434-9 | 5.1 | 26 |
| 55 | Effects of the nature of the nitrogen donor atom (sp^2 versus sp^3) upon the properties and chemistry of palladated complexes with $[Pd(\eta^5-Cp)_2]$ (η^5-Cp , ferrocene) bonds. <i>Journal of the Chemical Society Dalton Transactions</i> , 1994 , 3039-3046 | | 26 |
| 54 | Photonic phosphors based on cubic $Y_2O_3:Tb^{3+}$ infilled into a synthetic opal lattice. <i>Journal of Optics</i> , 2003 , 5, S81-S85 | | 23 |
| 53 | Alkyne insertions into the $[Pd(\eta^5-Cp)_2]$ (η^5-Cp , ferrocene) bond of cyclopalladated complexes containing Schiff bases derived from ferrocene. Crystal structures of $[Pd\{[(EtCCEt)_2(1,5-C_5H_3CRNCH_2Ph)]Fe(1,5-C_5H_5)\}Cl]$ ($R = H$ or Me). <i>Journal of the Chemical Society Dalton Transactions</i> , 1995 , 1839-1849 | | 23 |
| 52 | Cathodoluminescence and Photoluminescence of $YPO_4:Pr^{3+}$, $Y_2SiO_5:Pr^{3+}$, $YBO_3:Pr^{3+}$, and $YPO_4:Bi^{3+}$. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, R47-R52 | 2 | 21 |
| 51 | 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 |
| 50 | Contrasting behaviour of the co-activators in the luminescence spectra of $Y_2O_3:Tb^{3+}, Er^{3+}$ nanometre sized particles under UV and red light excitation. <i>Nanoscale</i> , 2013 , 5, 1091-6 | 7.7 | 20 |
| 49 | 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. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1447-1451 | | 19 |
| 48 | 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 |

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|----|---|-----|----|
| 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 | Luminescence properties of HAg ₂ WO 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 |
| 45 | Low-voltage cathodoluminescent red emitting phosphors for field emission displays. <i>Journal of Luminescence</i> , 2007 , 122-123, 562-566 | 3.8 | 17 |
| 44 | 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 |
| 43 | A Synthetic Method for the Production of a Range of Particle Sizes for Y ₂ O ₃ :Eu ³⁺ Phosphors Using a Copolymer Microgel of NIPAM and AMPS. <i>Journal of the Electrochemical Society</i> , 2002 , 149, H53 | 3.9 | 15 |
| 42 | Diamond based detectors for high temperature, high radiation environments. <i>Journal of Instrumentation</i> , 2017 , 12, C01066-C01066 | 1 | 14 |
| 41 | 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 |
| 40 | 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 |
| 39 | Effects of Temperature and Pressure on the Mössbauer Spectra of Models for the [4Fe-4S] ₂ ⁺ Clusters of Iron-Sulfur Proteins and the Structure of [PPH ₄] ₂ [Fe ₄ S ₄ (SCH ₂ CO ₂ C ₂ H ₅) ₄]. <i>Inorganic Chemistry</i> , 1999 , 38, 4256-4261 | 5.1 | 14 |
| 38 | Red Shift of CT-Band in Cubic Y ₂ O ₃ :Eu ³⁺ upon Increasing the Eu ³⁺ Concentration. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R59-R66 | 2 | 12 |
| 37 | Rare-earth element anti-Stokes emission from three inverse photonic lattices. <i>Journal of Modern Optics</i> , 2002 , 49, 965-976 | 1.1 | 12 |
| 36 | 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 |
| 35 | 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 |
| 34 | Palladium(II)-induced preferential activation of the [Csp ² (phenyl)Al] bond versus [Csp ² (ferrocene)Al]. Crystal structure of [Fe(η ⁵ -C ₅ H ₅)(η ⁵ -C ₅ H ₄ CH ₂ NCH(C ₆ H ₃ Cl ₂ -2,6))]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995 , 4053-4058 | | 11 |
| 33 | Low temperature micro Raman and laser induced upconversion and downconversion spectra of europium doped silver tungstate Ag ₂ B _x EuxWO ₄ nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 7029-7035 | 2.1 | 10 |
| 32 | 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 |
| 31 | Structure and Morphology of ACEL ZnS:Cu,Cl Phosphor Powder Etched by Hydrochloric Acid. <i>Journal of the Electrochemical Society</i> , 2009 , 156, J326 | 3.9 | 9 |
| 30 | Structure and luminescence analyses of simultaneously synthesised (LuGd)OS:Tb and (LuGd)O:Tb. <i>Dalton Transactions</i> , 2017 , 46, 7693-7707 | 4.3 | 8 |

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|----|---|-----|---|
| 29 | Nanosized (Y _{1-x} Gd _x) ₂ O ₃ :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 |
| 28 | Contrast and decay of cathodoluminescence from phosphor particles in a scanning electron microscope. <i>Ultramicroscopy</i> , 2015 , 157, 27-34 | 3.1 | 7 |
| 27 | Photoluminescence, cathodoluminescence and micro-Raman investigations of monoclinic nanometre-sized Y ₂ O ₃ and Y ₂ O ₃ :Eu ³⁺ . <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8930-8938 | 7.1 | 7 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | Reassignment of electronic transitions in the laser-activated spectrum of nanocrystalline Y ₂ O ₃ :Er ³⁺ . <i>Journal of Luminescence</i> , 2018 , 196, 337-346 | 3.8 | 6 |
| 21 | Laser Diode Induced Lighting Modules. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R26-R33 | | 6 |
| 20 | New Developments in Cathodoluminescence Spectroscopy for the Study of Luminescent Materials. <i>Materials</i> , 2017 , 10, | 3.5 | 5 |
| 19 | 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 |
| 18 | UV photoluminescence from small particles of calcium cadmium sulfide solid solutions. <i>Journal of Optics</i> , 2005 , 7, S265-S269 | | 5 |
| 17 | On the Photo- and Cathodoluminescence of LaB ₃ O ₆ :Gd,Bi, Y ₃ Al ₅ O ₁₂ :Pr, Y ₃ Al ₅ O ₁₂ :Gd, Lu ₃ Al ₅ O ₁₂ :Pr, and Lu ₃ Al ₅ O ₁₂ :Gd. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R206-R214 ² | | 5 |
| 16 | Achieving structured colour in inorganic systems: Learning from the natural world. <i>Optics and Laser Technology</i> , 2011 , 43, 401-409 | 4.2 | 4 |
| 15 | Ultrathin YO:Eunanodiscs: spectroscopic investigations and evidence for reduced concentration quenching. <i>Nanotechnology</i> , 2018 , 29, 455703 | 3.4 | 4 |
| 14 | Cathodoluminescence of Y ₂ O ₃ :Ln ³⁺ (Ln = Tb, Er and Tm) and Y ₂ O ₃ :Bi ³⁺ nanocrystalline particles at 200 keV. <i>RSC Advances</i> , 2018 , 8, 396-405 | 3.7 | 3 |
| 13 | Electrostatic field effects manifested in ferrocenyl metal complexes and the crystal structure of [Fe(15-C5H5)(15-C5H4CH ₂ NNHC5H4N)]·HCl. <i>Journal of Organometallic Chemistry</i> , 2001 , 637-639, 311-317 ^{2,3} | | 3 |
| 12 | ZnCdS:Cu,Al,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 |

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| 11 | 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 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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 |
| 6 | Investigation of near-source basaltic glasses using ⁵⁷ Fe Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 2006 , 166, 705-708 | 0.8 | 1 |
| 5 | 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 |
| 4 | Cathodoluminescence studies of phosphors in a scanning electron microscope. <i>Journal of Physics: Conference Series</i> , 2015 , 619, 012051 | 0.3 | |
| 3 | Materials Suitable for preparing Inorganic Nanocasts of butterflies and other insects. <i>Journal of Physics: Conference Series</i> , 2015 , 619, 012050 | 0.3 | |
| 2 | 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} | | |
| 1 | The use of a novel phosphor screen for visualising the infrared beam of a gas detector 2005 , 5826, 425 | | |