## **Akhilesh Singh**

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Multifunctionality of lanthanide-based luminescent hybrid materials. Coordination Chemistry Reviews, 2022, 455, 214365.	18.8	28
2	Lanthanide-doped inorganic halide perovskites (CsPbX <sub>3</sub> ): novel properties and emerging applications. Journal of Materials Chemistry C, 2022, 10, 3647-3676.	5.5	25
3	Band gap tuning of ferroelectric PbTiO3 by Mo doping. Journal of Materials Science: Materials in Electronics, 2022, 33, 2550-2565.	2.2	4
4	Control of Layering in Aurivillius Phase Nanocomposite Thin Films and Influence on Ferromagnetism and Optical Absorption. ACS Applied Electronic Materials, 2022, 4, 1997-2004.	4.3	6
5	Halide perovskite nanocrystals and lanthanide complex-based bi-luminescent security ink for multilevel static-dynamic anticounterfeiting. Materials Research Bulletin, 2022, 155, 111977.	5.2	10
6	All-optical switch based on PbS quantum dots. Applied Physics Letters, 2021, 119, .	3.3	4
7	Influence of Bi3+ ion on structural, optical, dielectric and magnetic properties of Eu3+ doped LaVO4 phosphor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 243, 118787.	3.9	41
8	Wide-bandgap lanthanide niobates: Optical properties and applications. Materials Research Bulletin, 2020, 131, 110960.	5.2	7
9	Light management using CsPbBr <sub>3</sub> colloidal quantum dots for luminescent solar concentrators. Methods and Applications in Fluorescence, 2020, 8, 045008.	2.3	10
10	Structural, dielectric, semiconducting and optical properties of high-energy ball milled YFeO3 nano-particles. AIP Conference Proceedings, 2019, , .	0.4	6
11	Probing reversible photoluminescence alteration in CH3NH3PbBr3 colloidal quantum dots for luminescence-based gas sensing application. Journal of Colloid and Interface Science, 2019, 554, 668-673.	9.4	10
12	MOF derived Co/C and Co3O4/C polyhedron for hydrogen evolution reaction. AIP Conference Proceedings, 2019, , .	0.4	2
13	Deposition of Fe/Nb multilayers and Fe/Nb/Fe trilayers using HIPIMS: XRR measurements for interface diffusion study. AIP Conference Proceedings, 2019, , .	0.4	1
14	X-ray diffraction analysis of Cu2+ doped Zn1-xCuxFe2O4 spinel nanoparticles using Williamson-Hall plot method. AIP Conference Proceedings, 2019, , .	0.4	13
15	Developing a reduction resistant layer with SrNi0.8Mo0.2O3-δ mixed–oxide for Sm0.2Ce0.8O2-δ based solid oxide fuel cells. AIP Conference Proceedings, 2019, , .	0.4	0
16	Nanonetwork of Coordination Polymer AHMT-Ag for the Effective and Broad Spectrum Detection of 6-Mercaptopurine in Urine and Blood Serum. ACS Omega, 2019, 4, 16733-16742.	3.5	8
17	Discovery of ordered tetragonal and cubic phases in the morphotropic phase boundary region of (1-x)Bi(Mg3/4W1/4)O3-xPbTiO3 piezoceramics. Ceramics International, 2019, 45, 17395-17408.	4.8	6
18	Incommensurately modulated phase and charge ordering transition in nanocrystalline Nd0 5Sr0 5MnO3perovskite, Journal of Applied Physics, 2018, 123, 124301	2.5	7

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19	Eu–Mg defects and donor–acceptor pairs in GaN: photodissociation and the excitation transfer problem. Journal Physics D: Applied Physics, 2018, 51, 065106.	2.8	5
20	Synthesis and band-gap tuning of (Co, Bi) doped PbTiO <sub>3</sub> for photoferroelectrics applications. Integrated Ferroelectrics, 2018, 194, 145-151.	0.7	6
21	Highly Efficient, Chemically Stable, and UV/Blue-Light-Excitable Biluminescent Security Ink to Combat Counterfeiting. ACS Applied Materials & Interfaces, 2018, 10, 44570-44575.	8.0	51
22	Hysteretic Photochromic Switching (HPS) in Doubly Doped GaN(Mg):Eu—A Summary of Recent Results. Materials, 2018, 11, 1800.	2.9	5
23	A step towards synthesizing unique UV and visible light excitable AWO4:Eu3+ (A = Ca and Sr) nanophosphors using high energy ball milling method: luminescence differences in going from Ca2+ → Sr2+. Journal of Materials Science: Materials in Electronics, 2018, 29, 13751-13765.	2.2	6
24	Origin of ferroelectric Pâ€E loop in cubic compositions and structure of poled (1â€ <i>x</i> )Bi(Mg <sub>1/2</sub> 2r <sub>1/2</sub> )O <sub>3</sub> â€ <scp><i>x</i>PbTiO</scp> <sub>3piezoceramics. Journal of the American Ceramic Society, 2017, 100, 1743-1750.</sub>	b <b>8.</b> 8	2
25	Hysteretic photochromic switching of Eu-Mg defects in GaN links the shallow transient and deep ground states of the Mg acceptor. Scientific Reports, 2017, 7, 41982.	3.3	11
26	A strategy to achieve efficient dual-mode luminescence in lanthanide-based magnetic hybrid nanostructure and its demonstration for the detection of latent fingerprints. Journal of Colloid and Interface Science, 2017, 491, 199-206.	9.4	39
27	Lanthanide doped ultrafine hybrid nanostructures: multicolour luminescence, upconversion based energy transfer and luminescent solar collector applications. Nanoscale, 2017, 9, 696-705.	5.6	33
28	Presence of a monoclinic (Cc) phase in the (1â^'x)BiFeO3-xCaTiO3 solid solution nanoparticles: A Rietveld study. Journal of Applied Physics, 2017, 122, 204101.	2.5	4
29	Synthesis and structural investigations on multiferroic Ba <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> perovskite manganites. Ferroelectrics, 2017, 518, 191-195.	0.6	11
30	Energy transfer dynamics and time resolved photoluminescence in BaWO4:Eu3+ nanophosphors synthesized by mechanical activation. New Journal of Chemistry, 2017, 41, 8947-8958.	2.8	28
31	Luminescence of Eu3+ in GaN(Mg, Eu): Transitions from the 5D1 level. Applied Physics Letters, 2017, 111, .	3.3	12
32	Optical properties of a scorpion ( <i>Centruroides limpidus</i> ). Physica Scripta, 2016, 91, 045802.	2.5	2
33	Enhanced Quantum Cutting via Li <sup>+</sup> Doping from a Bi <sup>3+</sup> /Yb <sup>3+</sup> -Codoped Gadolinium Tungstate Phosphor. Inorganic Chemistry, 2016, 55, 10928-10935.	4.0	49
34	New Leadâ€free (1Ⱂ <i>x</i> )BaTiO <sub>3</sub> – <i>x</i> Bi(Mg <sub>1/2</sub> Zr <sub>1/2</sub> )O <sub>3</sub> Solid Solution with Morphotropic Phase Boundary and Diffuse Phase Transition. Journal of the American Ceramic Society. 2016, 99, 3651-3658.	3.8	5
35	Magneto-optical reflectance and absorbance of PbS quantum dots. Physica Scripta, 2015, 90, 095501.	2.5	2
36	Inherent photoluminescence Stokes shift in GaAs. Optics Letters, 2015, 40, 2580.	3.3	20

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37	Host matrix impact on Er <sup>3+</sup> upconversion emission and its temperature dependence. RSC Advances, 2015, 5, 16067-16073.	3.6	44
38	Enhanced Red Upconversion Emission, Magnetoluminescent Behavior, and Bioimaging Application of NaSc <sub>0.75</sub> Er <sub>0.02</sub> Yb <sub>0.18</sub> Cd <sub>0.05</sub> F <sub>4</sub> @AuNPs Nanoparticles. ACS Applied Materials & Interfaces, 2015, 7, 15339-15350.	8.0	69
39	Photo-dynamic Burstein-Moss doping of PbS quantum dots in solution by single and two-photon optical pumping. Optical Materials Express, 2015, 5, 2431.	3.0	6
40	Revelation of the Technological Versatility of the Eu(TTA) <sub>3</sub> Phen Complex by Demonstrating Energy Harvesting, Ultraviolet Light Detection, Temperature Sensing, and Laser Applications. ACS Applied Materials & Interfaces, 2015, 7, 18231-18239.	8.0	88
41	Lanthanide complexes for temperature sensing, UV light detection, and laser applications. Sensors and Actuators A: Physical, 2015, 222, 255-261.	4.1	58
42	Phenothiazine apped Gold Nanoparticles: Photochemically Assisted Synthesis and Application in Electrosensing of Phosphate Ions. ChemElectroChem, 2014, 1, 793-798.	3.4	7
43	Photoluminescence lineshape of ZnO. AIP Advances, 2014, 4, 123001.	1.3	9
44	Magneto-optical controlled transmittance alteration of PbS quantum dots by moderately applied magnetic fields at room temperature. Applied Physics Letters, 2014, 105, .	3.3	5
45	Down-shifting and upconversion photoluminescence in Ho <sup>3+</sup> /Yb <sup>3+</sup> codoped GdNbO <sub>4</sub> : effect of the Bi <sup>3+</sup> ion and the magnetic field. Dalton Transactions, 2014, 43, 15906-15914.	3.3	62
46	New Perspective in Garnet Phosphor: Low Temperature Synthesis, Nanostructures, and Observation of Multimodal Luminescence. Inorganic Chemistry, 2014, 53, 9561-9569.	4.0	41
47	Lanthanide Doped Dual-Mode Nanophosphor as a Spectral Converter for Promising Next Generation Solar Cells. Science of Advanced Materials, 2014, 6, 405-412.	0.7	14
48	Frequency upconversion in Er3+ doped Y2O3 nanophosphor:Yb3+ sensitization and tailoring effect of Li+ ion. Materials Research Bulletin, 2013, 48, 4307-4313.	5.2	43
49	A comparative thermal, optical, morphological and mechanical properties studies of pristine and C15A nanoclay-modified PC/PMMA blends: a critical evaluation of the role of nanoclay particles as compatibilizers. RSC Advances, 2013, 3, 15411.	3.6	19
50	Probing a highly efficient dual mode: down–upconversion luminescence and temperature sensing performance of rare-earth oxide phosphors. Dalton Transactions, 2013, 42, 1065-1072.	3.3	135
51	Absence of tetragonal distortion in (1â^'x)SrTiO3-xBi(Zn1/2Ti1/2)O3 solid solution. Journal of Applied Physics, 2013, 113, .	2.5	11
52	Synthesis and structural characterization of highly tetragonal (1-x)Bi(Zn[sub 1â^•2]Ti[sub) Tj ETQq0 0 0 rgBT /O	verlock 10	) Tf 50 142 Td
	Evidence for in situ graft copolymer formation and compatibilization of PC and PMMA during reactive		

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55	Optical characteristics and charge transfer band excitation of Dy3+ doped Y2O3 phosphor. Materials Research Bulletin, 2012, 47, 1339-1344.	5.2	40
56	Low temperature phase transition studies on Pb(Mg0.5W0.5)O3 ceramic. Solid State Sciences, 2012, 14, 100-105.	3.2	5
57	Reactive Compatibilization of Polycarbonate and Poly(methyl methacrylate) in the Presence of a Novel Transesterification Catalyst SnCl <sub>2</sub> ·2H <sub>2</sub> O. Journal of Physical Chemistry B, 2011, 115, 1601-1607.	2.6	25
58	Efficient dual mode multicolor luminescence in a lanthanide doped hybrid nanostructure: a multifunctional material. Nanotechnology, 2011, 22, 275703.	2.6	47
59	X-ray diffraction and dielectric studies across morphotropic phase boundary in (1â^'x) [Pb(Mg0.5W0.5)O3]–xPbTiO3 ceramics. Journal of Alloys and Compounds, 2011, 509, 5167-5172.	5.5	6
60	Preparation and characterization of Tb3+ and Tb(sal)3·nH2O doped PC:PMMA blend. Journal of Luminescence, 2011, 131, 2451-2456.	3.1	18
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73	Monoclinic Phases in the Pb(ZrxTi1-x)O3Ceramics. Ferroelectrics, 2005, 325, 35-42.	0.6	8
74	Comparison of theCcandR3cspace groups for the superlattice phase ofPb(Zr0.52Ti0.48)O3. Physical Review B, 2005, 71, .	3.2	52
75	On the Discovery of Two New Monoclinic Phases in the Morphotropic Phase Boundary Region of Pb[(Mg1/3Nb2/3)O3]-xPbTiO3Ceramics. Ferroelectrics, 2005, 326, 91-99.	0.6	16
76	Barrier Layer Formation and PTCR Effect in (1 â^' x) [Pb(Fe1/2Nb1/2)O3]-xPbTiO3(x= 0.13) Ceramics. Ferroelectrics, 2005, 324, 49-53.	0.6	13
77	Evidence forMBandMCphases in the morphotropic phase boundary region of(1â^*x)[Pb(Mg1/3Nb2/3)O3]â^*xPbTiO3:A Rietveld study. Physical Review B, 2003, 67, .	3.2	310
78	Crystallographic phases, phase transitions, and barrier layer formation in (1 â^' <i>x</i> ) [Pb(Fe <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> ]â^' <i>x</i> PbTiO <sub>3</sub> . Journal of Materials Research, 2003, 18, 2677-2687.	2.6	58
79	Confirmation ofMB-type monoclinic phase inPb[(Mg1/3Nb2/3)0.71Ti0.29]O3:A powder neutron diffraction study. Physical Review B, 2003, 68, .	3.2	29
80	Structure and the location of the morphotropic phase boundary region in (1-x)[Pb(Mg1/3Nb2/3)O3]-xPbTiO3. Journal of Physics Condensed Matter, 2001, 13, L931-L936.	1.8	99