

# Pawan Mr Kumar

## List of Publications by Year in descending order

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42  
papers

1,819  
citations

331642

21  
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265191

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43  
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43  
docs citations

43  
times ranked

2649  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of surface engineering of hybrid structure for high performance quantum dots based photoelectrochemical hydrogen generation. <i>Chemical Engineering Journal</i> , 2022, 429, 132425.	12.7	14
2	Recent development in upconversion nanoparticles and their application in optogenetics: A review. <i>Journal of Rare Earths</i> , 2022, 40, 847-861.	4.8	20
3	Role of Interfacial Engineering of "Giant" Core-Shell Quantum Dots. <i>ACS Applied Energy Materials</i> , 2022, 5, 1447-1459.	5.1	14
4	Carbon-Based Quantum Dots for Photovoltaic Devices: A Review. <i>ACS Applied Electronic Materials</i> , 2022, 4, 27-58.	4.3	27
5	Review on Colloidal Quantum Dots Luminescent Solar Concentrators. <i>ChemistrySelect</i> , 2021, 6, 4948-4967.	1.5	21
6	A bis-pyrene chalcone based fluorescent material for ratiometric sensing of hydrazine: An acid/base molecular switch and solid-state emitter. <i>Analytica Chimica Acta</i> , 2021, 1178, 338807.	5.4	16
7	Composition-Dependent Photoluminescence Properties and Anti-Counterfeiting Applications of $A_{x_2}AgX_3$ ( $A = Rb, Cs$ ; $X = Cl, Br, I$ ). <i>Advanced Functional Materials</i> , 2021, 31, 2104941.	14.9	50
8	Highly luminescent biocompatible $CsPbBr_3@SiO_2$ core-shell nanoprobes for bioimaging and drug delivery. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10337-10345.	5.8	59
9	Zwitterion-assisted transition metal dichalcogenide nanosheets for scalable and biocompatible inkjet printing. <i>Nano Research</i> , 2020, 13, 2726-2734.	10.4	15
10	Removal of heavy metals by polysaccharide: a review. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 1770-1790.	1.3	20
11	Enhanced photoluminescence in $CaMoO_4:Eu^{3+}$ by $Mn^{2+}$ co-doping. <i>Journal of Luminescence</i> , 2020, 223, 117240.	3.1	28
12	New Insights into the Triton X-100 Induced Chemical Exfoliation of $MoS_2$ to Derive Highly Luminescent Nanosheets. <i>ChemistrySelect</i> , 2019, 4, 6219-6226.	1.5	4
13	New insight into printable europium-doped yttrium borate luminescent pigment for security ink applications. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	8
14	High-performance field emission device utilizing vertically aligned carbon nanotubes-based pillar architectures. <i>AIP Advances</i> , 2018, 8, .	1.3	20
15	A strategy to design lanthanide doped dual-mode phosphor mediated spectral convertor for solar cell applications. <i>Journal of Luminescence</i> , 2018, 196, 207-213.	3.1	27
16	Highly Luminescent Dual Mode Polymeric Nanofiber-Based Flexible Mat for White Security Paper and Encrypted Nanotaggant Applications. <i>Chemistry - A European Journal</i> , 2018, 24, 9477-9484.	3.3	24
17	Experimental observation of spatially resolved photo-luminescence intensity distribution in dual mode upconverting nanorod bundles. <i>Scientific Reports</i> , 2017, 7, 42515.	3.3	2
18	Unclonable Security Codes Designed from Multicolor Luminescent Lanthanide-Doped $Y_2O_3$ Nanorods for Anticounterfeiting. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14301-14308.	8.0	102

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19	A novel electroluminescent device based on a reduced graphene oxide wrapped phosphor (ZnS:Cu,Al) and hexagonal-boron nitride for high-performance luminescence. <i>Nanoscale</i> , 2017, 9, 5002-5008.	5.6	17
20	A Novel Approach to Synthesise a Dual-Mode Luminescent Composite Pigment for Uncloneable High-Security Codes to Combat Counterfeiting. <i>Chemistry - A European Journal</i> , 2017, 23, 17144-17151.	3.3	40
21	Tunable luminescence from two dimensional BCNO nanophosphor for high-contrast cellular imaging. <i>RSC Advances</i> , 2017, 7, 41486-41494.	3.6	12
22	Eu <sup>3+</sup> doped $\beta$ -sodium gadolinium fluoride luminescent nanophosphor as a bimodal nanoprobe for high-contrast in vitro bioimaging and external magnetic field tracking applications. <i>RSC Advances</i> , 2016, 6, 44606-44615.	3.6	12
23	Bifunctional Luminescent Rare-Earth Nanorods for High-Contrast Bioimaging Nanoprobes. <i>Scientific Reports</i> , 2016, 6, 32401.	3.3	29
24	Future prospects of luminescent nanomaterial based security inks: from synthesis to anti-counterfeiting applications. <i>Nanoscale</i> , 2016, 8, 14297-14340.	5.6	378
25	Field emission properties of highly ordered low-aspect ratio carbon nanocup arrays. <i>RSC Advances</i> , 2016, 6, 9932-9939.	3.6	10
26	Probing on green long persistent Eu <sup>2+</sup> /Dy <sup>3+</sup> doped Sr <sub>3</sub> SiAl <sub>4</sub> O <sub>11</sub> emerging phosphor for security applications. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	18
27	Fabrication of highly efficient resonant structure assisted ultrathin artificially stacked Ag/ZnS/Ag multilayer films for color filter applications. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6745-6754.	5.5	11
28	Sunlight-activated Eu <sup>2+</sup> /Dy <sup>3+</sup> doped SrAl <sub>2</sub> O <sub>4</sub> water resistant phosphorescent layer for optical displays and defence applications. <i>New Journal of Chemistry</i> , 2015, 39, 3380-3387.	2.8	51
29	New insight into rare-earth doped gadolinium molybdate nanophosphor assisted broad spectral converters from UV to NIR for silicon solar cells. <i>RSC Advances</i> , 2015, 5, 24729-24736.	3.6	46
30	Probing Highly Luminescent Europium-Doped Lanthanum Orthophosphate Nanorods for Strategic Applications. <i>Inorganic Chemistry</i> , 2015, 54, 2616-2625.	4.0	54
31	High-Performance Stable Field Emission with Ultralow Turn on Voltage from rGO Conformal Coated TiO <sub>2</sub> Nanotubes 3D Arrays. <i>Scientific Reports</i> , 2015, 5, 11612.	3.3	42
32	Luminescent bifunctionality of Mn <sup>2+</sup> -bonded graphene oxide/reduced graphene oxide two dimensional nanosheets. <i>Nanoscale</i> , 2015, 7, 12498-12509.	5.6	7
33	New emerging rare-earth free yellow emitting 2D BCNO nanophosphor for white light emitting diodes. <i>New Journal of Chemistry</i> , 2015, 39, 5161-5170.	2.8	30
34	Probing the engineered sandwich network of vertically aligned carbon nanotube-reduced graphene oxide composites for high performance electromagnetic interference shielding applications. <i>Carbon</i> , 2015, 85, 79-88.	10.3	141
35	A novel strategy to enhance ultraviolet light driven photocatalysis from graphene quantum dots infilled TiO <sub>2</sub> nanotube arrays. <i>RSC Advances</i> , 2015, 5, 10623-10631.	3.6	65
36	Highly luminescent dual mode rare-earth nanorod assisted multi-stage excitable security ink for anti-counterfeiting applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10468-10475.	5.5	231

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37	Large scale production of three dimensional carbon nanotube pillared graphene network for bi-functional optical properties. Carbon, 2014, 78, 147-155.	10.3	26
38	A commercial approach for the fabrication of bulk and nano phosphors converted into highly efficient white LEDs. RSC Advances, 2014, 4, 54936-54947.	3.6	45
39	Fabrication of a Flexible UV Band-Pass Filter Using Surface Plasmon Metal-Polymer Nanocomposite Films for Promising Laser Applications. ACS Applied Materials & Interfaces, 2014, 6, 8407-8414.	8.0	19
40	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
41	Fabrication of Artificially Stacked Ultrathin ZnS/MgF <sub>2</sub> Multilayer Dielectric Optical Filters. ACS Applied Materials & Interfaces, 2013, 5, 4872-4877.	8.0	38
42	A study on the effect of different chemical routes on functionalization of MWCNTs by various groups (-COOH, -SO <sub>3</sub> H, -PO <sub>3</sub> H <sub>2</sub> ). Nanoscale Research Letters, 2011, 6, 583.	5.7	12