

# Abdul K Parchur

## List of Publications by Year in descending order

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51  
papers

2,307  
citations

236912

25  
h-index

223791

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g-index

53  
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53  
docs citations

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times ranked

2195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescence properties of Tb <sup>3+</sup> -doped CaMoO <sub>4</sub> nanoparticles: annealing effect, polar medium dispersible, polymer film and core-shell formation. Dalton Transactions, 2012, 41, 11032.	3.3	188
2	Behaviour of electric and magnetic dipole transitions of Eu <sup>3+</sup> , 5D <sub>0</sub> → 7F <sub>0</sub> and Eu <sup>3+</sup> O charge transfer band in Li <sup>+</sup> co-doped YPO <sub>4</sub> :Eu <sup>3+</sup> . RSC Advances, 2012, 2, 10859.	3.6	172
3	Enhanced up-conversion and temperature-sensing behaviour of Er <sup>3+</sup> and Yb <sup>3+</sup> co-doped Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> by incorporation of Li <sup>+</sup> ions. Physical Chemistry Chemical Physics, 2014, 16, 22665-22676.	2.8	152
4	Luminescence properties of Eu <sup>3+</sup> doped CaMoO <sub>4</sub> nanoparticles. Dalton Transactions, 2011, 40, 7595.	3.3	149
5	Preparation and structure refinement of Eu <sup>3+</sup> doped CaMoO <sub>4</sub> nanoparticles. Dalton Transactions, 2011, 40, 7590.	3.3	140
6	Enhanced photoluminescence in CaMoO <sub>4</sub> :Eu <sup>3+</sup> by Gd <sup>3+</sup> co-doping. Dalton Transactions, 2014, 43, 4779.	3.3	108
7	Vascular Interventional Radiology-Guided Photothermal Therapy of Colorectal Cancer Liver Metastasis with Theranostic Gold Nanorods. ACS Nano, 2018, 12, 6597-6611.	14.6	101
8	Structural and up-conversion properties of Er <sup>3+</sup> and Yb <sup>3+</sup> co-doped Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> phosphors. Physical Chemistry Chemical Physics, 2013, 15, 3480.	2.8	98
9	Luminescent lanthanide nanocomposites in thermometry: Chemistry of dopant ions and host matrices. Coordination Chemistry Reviews, 2021, 444, 214040.	18.8	96
10	Observation of intermediate bands in Eu <sup>3+</sup> doped YPO <sub>4</sub> host: Li <sup>+</sup> ion effect and blue to pink light emitter. AIP Advances, 2012, 2, .	1.3	84
11	Bi-functional properties of Fe <sub>3</sub> O <sub>4</sub> @YPO <sub>4</sub> :Eu hybrid nanoparticles: hyperthermia application. Dalton Transactions, 2013, 42, 4885.	3.3	80
12	Influence of Gd <sup>3+</sup> co-doping on structural property of CaMoO <sub>4</sub> :Eu nanoparticles. Dalton Transactions, 2014, 43, 4770-4778.	3.3	76
13	Improvement of blue, white and NIR emissions in YPO <sub>4</sub> :Dy <sup>3+</sup> nanoparticles on co-doping of Li <sup>+</sup> ions. Dalton Transactions, 2012, 41, 13810.	3.3	70
14	Enhanced luminescence of CaMoO <sub>4</sub> :Eu by core@shell formation and its hyperthermia study after hybrid formation with Fe <sub>3</sub> O <sub>4</sub> : cytotoxicity assessment on human liver cancer cells and mesenchymal stem cells. Integrative Biology (United Kingdom), 2014, 6, 53-64.	1.3	69
15	In-vitro cyto-toxicity, geno-toxicity, and bio-imaging evaluation of one-pot synthesized luminescent functionalized mesoporous SiO <sub>2</sub> @Eu(OH) <sub>3</sub> core-shell microspheres. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 1328-1335.	3.3	64
16	New advances in pre-clinical diagnostic imaging perspectives of functionalized upconversion nanoparticle-based nanomedicine. Coordination Chemistry Reviews, 2021, 440, 213971.	18.8	60
17	Effect of surface coating on optical properties of Eu <sup>3+</sup> -doped CaMoO <sub>4</sub> nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 131, 30-36.	3.9	53
18	Preparation, microstructure and crystal structure studies of Li <sup>+</sup> co-doped YPO <sub>4</sub> :Eu <sup>3+</sup> . RSC Advances, 2012, 2, 10854.	3.6	51

#	ARTICLE	IF	CITATIONS
19	Structural and photoluminescence properties of Tb-doped CaMoO <sub>4</sub> nanoparticles with sequential surface coatings. <i>Materials Chemistry and Physics</i> , 2014, 147, 715-721.	4.0	49
20	Influence of Surface Coating on Structural and Photoluminescent Properties of CaMoO <sub>4</sub> :Pr Nanoparticles. <i>Journal of Fluorescence</i> , 2014, 24, 1253-1262.	2.5	42
21	Efficient temperature sensing using photoluminescence of Er/Yb implanted GaN thin films. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 769-776.	7.8	39
22	Near-infrared photothermal therapy of Prussian-blue-functionalized lanthanide-ion-doped inorganic/plasmonic multifunctional nanostructures for the selective targeting of HER2-expressing breast cancer cells. <i>Biomaterials Science</i> , 2016, 4, 1781-1791.	5.4	32
23	Highly aqueous soluble CaF <sub>2</sub> :Ce/Tb nanocrystals: effect of surface functionalization on structural, optical band gap, and photoluminescence properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 178.	3.6	31
24	Progress in Remotely Triggered Hybrid Nanostructures for Next-Generation Brain Cancer Theranostics. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2669-2687.	5.2	31
25	Nd-doped calcium molybdate core and particles: synthesis, optical and photoluminescence studies. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 1719-1728.	2.3	28
26	Influence of Shell Formation on Morphological Structure, Optical and Emission Intensity on Aqueous Dispersible NaYF <sub>4</sub> :Ce/Tb Nanoparticles. <i>Journal of Fluorescence</i> , 2016, 26, 1151-1159.	2.5	23
27	<i>In vitro</i> biomechanical properties, fluorescence imaging, surface-enhanced Raman spectroscopy, and photothermal therapy evaluation of luminescent functionalized CaMoO <sub>4</sub> :Eu@Au hybrid nanorods on human lung adenocarcinoma epithelial cells. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 346-360.	6.1	20
28	Host genetic modifiers of nonproductive angiogenesis inhibit breast cancer. <i>Breast Cancer Research and Treatment</i> , 2017, 165, 53-64.	2.5	19
29	AMP-Kinase Dysfunction Alters Notch Ligands to Impair Angiogenesis in Neonatal Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 719-731.	2.9	19
30	Methods for detecting host genetic modifiers of tumor vascular function using dynamic near-infrared fluorescence imaging. <i>Biomedical Optics Express</i> , 2018, 9, 543.	2.9	18
31	Heritable modifiers of the tumor microenvironment influence nanoparticle uptake, distribution and response to photothermal therapy. <i>Theranostics</i> , 2020, 10, 5368-5383.	10.0	15
32	Localized and triggered release of oxaliplatin for the treatment of colorectal liver metastasis. <i>Journal of Cancer</i> , 2020, 11, 6982-6991.	2.5	13
33	Experimental investigation of neural network estimator and transfer learning techniques for edge spectral CT imaging. <i>Medical Physics</i> , 2020, 47, 541-551.	3.0	12
34	SERS-fluorescence bimodal nanoprobe for <i>in vitro</i> imaging of the fatty acid responsive receptor GPR120. <i>Analytical Methods</i> , 2018, 10, 22-29.	2.7	11
35	Hybrid Nanostructures in Targeted Drug Delivery. , 2019, , 139-158.		11
36	<i>In-vitro</i> cytotoxicity evaluation of surface design luminescent lanthanide core/shell nanocrystals. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1259-1270.	4.9	11

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37	Effect Of EDTA On Luminescence Property Of Eu <sup>+3</sup> Doped YPO <sub>4</sub> Nanoparticles. AIP Conference Proceedings, 2010, , .	0.4	10
38	A rapid dynamic in vivo near-infrared fluorescence imaging assay to track lung vascular permeability after acute radiation injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L436-L450.	2.9	9
39	NIR-II window tracking of hyperglycemia induced intracerebral hemorrhage in cerebral cavernous malformation deficient mice. Biomaterials Science, 2020, 8, 5133-5144.	5.4	8
40	Decreased Cyclic Guanosine Monophosphate-Protein Kinase G Signaling Impairs Angiogenesis in a Lamb Model of Persistent Pulmonary Hypertension of the Newborn. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 555-567.	2.9	8
41	Effective Screening and Classification of Cervical Precancer Biopsy Imagery. IEEE Transactions on Nanobioscience, 2017, 16, 687-693.	3.3	7
42	Physiochemical characterization of highly biocompatible, and colloidal LaF <sub>3</sub> :Yb/Er upconversion nanoparticles. Photochemical and Photobiological Sciences, 2021, 20, 1195-1208.	2.9	7
43	Highly hydrophilic CaF <sub>2</sub> :Yb/Er upconversion nanoparticles: Structural, morphological, and optical properties. Journal of Fluorine Chemistry, 2021, 247, 109820.	1.7	5
44	CaMoO <sub>4</sub> :Tb@Fe <sub>3</sub> O <sub>4</sub> hybrid nanoparticles for luminescence and hyperthermia applications. AIP Conference Proceedings, 2013, , .	0.4	4
45	Smart Nanomaterials for Tumor Targeted Hyperthermia. , 2020, , 43-59.		4
46	Development and implementation of an automatic air delineation technique for MRI-guided adaptive radiation therapy. Physics in Medicine and Biology, 2022, 67, 145011.	3.0	4
47	Nanostructures for Externally Triggered Chemo/Thermal Therapies. , 2019, , 105-124.		2
48	Luminescence and electrical behavior of lead molybdate nanoparticles. , 2013, , .		0
49	Synthesis and characterization of bifunctional hybrid nanocomposite YPO <sub>4</sub> :5Eu@Fe <sub>3</sub> O <sub>4</sub> . , 2014, , .		0
50	Interpretation of thermal conductivity in LaFeAsO at low temperatures. AIP Conference Proceedings, 2015, , .	0.4	0
51	Safeguarding COVID-19 and cancer management: drug design and therapeutic approach. Open Research Europe, 0, 1, 77.	2.0	0