

# Radhakrishna Prabhu

## List of Publications by Year in descending order

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49  
papers

545  
citations

623574

14  
h-index

677027

22  
g-index

49  
all docs

49  
docs citations

49  
times ranked

795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Spray Coatings for Electromagnetic Wave Absorption and Interference Shielding: A Review and Future Challenges. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	12
2	Rapid extraction of high- and low-density microplastics from soil using high-gradient magnetic separation. <i>Science of the Total Environment</i> , 2022, 831, 154912.	3.9	12
3	Anti-Corrosion Behavior of Olmesartan for Soft-Cast Steel in 1 mol dm <sup>-3</sup> HCl. <i>Coatings</i> , 2021, 11, 965.	1.2	9
4	Optical Fibre-Based Sensors for Oil and Gas Applications. <i>Sensors</i> , 2021, 21, 6047.	2.1	30
5	Investigations of hollow-core photonic crystal fibres (HC-PCF) for trace explosive vapour detection. , 2020, , .		0
6	Improving the Design Approach to Developing Through-Metal Communications for Use in Subsea Pipeline Robots. , 2020, , .		1
7	Design of an absorptive reflective crossed CPC PV/T system. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
8	Using Static Concentrator Technology to Achieve Global Energy Goal. <i>Sustainability</i> , 2019, 11, 3056.	1.6	15
9	Effect of oxygen pressure on the structural and optical properties of BaSnO <sub>3</sub> films prepared by pulsed laser deposition method. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	25
10	Effect of Tungsten Doping on the Properties of In <sub>2</sub> O <sub>3</sub> Films. <i>Jom</i> , 2019, 71, 1885-1896.	0.9	3
11	Highly Ordered Good Crystalline ZnO-Doped WO <sub>3</sub> Thin Films Suitable for Optoelectronic Applications. <i>Jom</i> , 2019, 71, 1874-1884.	0.9	1
12	Optimal Coil Design for Maximum Power Transfer Efficiency in Resonantly Coupled Systems. , 2019, , .		2
13	Maximising Inductive Power Transmission using a Novel Analytical Coil Design Approach. , 2019, , .		3
14	Effect of Electron Beam Irradiation on Structural and Optical Properties of Cu-Doped In <sub>2</sub> O <sub>3</sub> Films Prepared by RF Magnetron Sputtering. <i>Jom</i> , 2018, 70, 739-746.	0.9	5
15	Numerical Investigation of Nanostructured Silica PCFs for Sensing Applications. <i>Jom</i> , 2017, 69, 2286-2291.	0.9	1
16	Computational study of nanostructured composite materials for photonic crystal fibre sensors. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 195, 012012.	0.3	2
17	Study on the Structural, Morphological and Optical Properties of RF-Sputtered Dysprosium-Doped Barium Tungstate Thin Films. <i>Jom</i> , 2017, 69, 2272-2277.	0.9	2
18	Synthesis, Structural and Morphological Property of BaSnO <sub>3</sub> Nanopowder Prepared by Solid State Ceramic Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 195, 012007.	0.3	6

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19	Effect of RF Power on the Structural and Optical Properties of Zinc Sulfide Films. Jom, 2017, 69, 2264-2271.	0.9	0
20	A photocatalytic impeller reactor for gas phase heterogeneous photocatalysis. Journal of Environmental Chemical Engineering, 2017, 5, 3942-3948.	3.3	14
21	Fibre optic sensor to detect heavy metal pollutants in water environments. , 2017, , .		9
22	Design of a smart security registration plate for seagoing motorized non-mechanical crafts. , 2017, , .		0
23	Design of optical fibre based highly sensitive acoustic sensor for underwater applications. , 2017, , .		4
24	Theoretical investigation of positional influence of FBG sensors for structural health monitoring of offshore structures. , 2017, , .		5
25	Theoretical design and analysis of a sensing system for high pressure and temperature measurement in subsea underwater applications. , 2017, , .		1
26	Design optimization of Cassegrain telescope for remote explosive trace detection. , 2017, , .		0
27	Banknote authentication using chaotic elements technology. , 2017, , .		0
28	Rate-dependent polymer adsorption in porous media. Journal of Petroleum Science and Engineering, 2016, 143, 65-71.	2.1	21
29	Solvent effects on lasing characteristics for Rh B laser dye. Journal of Luminescence, 2016, 169, 227-232.	1.5	5
30	Investigation of structural parameter dependence of confinement losses in PCF-FBG sensor for oil and gas sensing applications. Optical and Quantum Electronics, 2016, 48, 1.	1.5	13
31	Investigation of positioning of FBG sensors for smart monitoring of oil and gas subsea structures. , 2016, , .		12
32	Holographic interferometry for security and forensic applications. , 2016, , .		0
33	A fiber optic biosensor for the detection of cholesterol levels based on chitosan coated long period grating. Optoelectronics Letters, 2016, 12, 23-26.	0.4	9
34	Controlled periodic illumination in semiconductor photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 319-320, 96-106.	2.0	27
35	Influence of Pr Doping on the Structural, Morphological, Optical, Luminescent and Non-linear Optical Properties of RF-Sputtered ZnO Films. Jom, 2016, 68, 341-350.	0.9	10
36	Rare Elements Electrochemistry: The Development of a Novel Electrochemical Sensor for the Rapid Detection of Europium in Environmental Samples Using Gold Electrode Modified with 2-pyridinol-1-oxide. Analytical Sciences, 2015, 31, 623-627.	0.8	8

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37	Highly textured and transparent RF sputtered Eu <sub>2</sub> O <sub>3</sub> doped ZnO films. Nano Reviews, 2015, 6, 26759.	3.7	26
38	Microstructure encryption and decryption techniques in optical variable and invariable devices in printed documents for security and forensic applications. Proceedings of SPIE, 2015, , .	0.8	1
39	LED-controlled tuning of ZnO nanowires' wettability for biosensing applications. Nano Reviews, 2015, 6, 26711.	3.7	15
40	Photocatalytic degradation of eleven microcystin variants and nodularin by TiO <sub>2</sub> coated glass microspheres. Journal of Hazardous Materials, 2015, 300, 347-353.	6.5	42
41	Angular dependent light emission from planar waveguides. Journal of Applied Physics, 2015, 117, 015301.	1.1	2
42	Pharmaceutical electrochemistry: The electrochemical detection of aspirin utilising screen printed graphene electrodes as sensors platforms. Surface Engineering and Applied Electrochemistry, 2015, 51, 283-289.	0.3	16
43	UV LED Sources for Heterogeneous Photocatalysis. Handbook of Environmental Chemistry, 2014, , 159-179.	0.2	17
44	Highly transparent and luminescent nanostructured EU <sub>2</sub> O <sub>3</sub> doped ZnO films. IOP Conference Series: Materials Science and Engineering, 2014, 64, 012027.	0.3	0
45	The effect of pH on the photonic efficiency of the destruction of methyl orange under controlled periodic illumination with UV-LED sources. Chemical Engineering Journal, 2014, 246, 337-342.	6.6	24
46	Mathematical modelling of quantum yield enhancements of methyl orange photooxidation in aqueous TiO <sub>2</sub> suspensions under controlled periodic UV LED illumination. Applied Catalysis B: Environmental, 2014, 156-157, 398-403.	10.8	19
47	Effect of controlled periodic-based illumination on the photonic efficiency of photocatalytic degradation of methyl orange. Journal of Catalysis, 2012, 290, 138-142.	3.1	44
48	Photobactericidal effects of TiO <sub>2</sub> thin films at low temperatures' A preliminary study. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 216, 290-294.	2.0	22
49	Fabrication of a microfluidic chip by UV bonding at room temperature for integration of temperature-sensitive layers. Journal of Micromechanics and Microengineering, 2003, 13, S81-S84.	1.5	49