

Joice Sophia Ponraj

List of Publications by Year in descending order

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53
papers

3,567
citations

257450

24
h-index

214800

47
g-index

54
all docs

54
docs citations

54
times ranked

5796
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable Production of a Few-Layer MoS ₂ /WS ₂ Vertical Heterojunction Array and Its Application for Photodetectors. ACS Nano, 2016, 10, 573-580.	14.6	362
2	Few-Layer Bismuthene: Sonochemical Exfoliation, Nonlinear Optics and Applications for Ultrafast Photonics with Enhanced Stability. Laser and Photonics Reviews, 2018, 12, 1700221.	8.7	311
3	Few-Layer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2017, 7, 1700396.	19.5	301
4	Emerging Trends in Phosphorene Fabrication towards Next Generation Devices. Advanced Science, 2017, 4, 1600305.	11.2	285
5	Photonics and optoelectronics of two-dimensional materials beyond graphene. Nanotechnology, 2016, 27, 462001.	2.6	259
6	High-Performance Photo-Electrochemical Photodetector Based on Liquid-Exfoliated Few-Layered InSe Nanosheets with Enhanced Stability. Advanced Functional Materials, 2018, 28, 1705237.	14.9	258
7	Present perspectives of broadband photodetectors based on nanobelts, nanoribbons, nanosheets and the emerging 2D materials. Nanoscale, 2016, 8, 6410-6434.	5.6	233
8	Synthesis and Transfer of Large-Area Monolayer WS ₂ Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. ACS Nano, 2015, 9, 6178-6187.	14.6	200
9	2D Tellurium Based High-Performance All-Optical Nonlinear Photonic Devices. Advanced Functional Materials, 2019, 29, 1806346.	14.9	165
10	2D Nonlayered Selenium Nanosheets: Facile Synthesis, Photoluminescence, and Ultrafast Photonics. Advanced Optical Materials, 2017, 5, 1700884.	7.3	162
11	Enhancement of optoelectronic parameters of Nd-doped ZnO nanowires for photodetector applications. Optical Materials, 2020, 109, 110396.	3.6	129
12	Review on Atomic Layer Deposition and Applications of Oxide Thin Films. Critical Reviews in Solid State and Materials Sciences, 2013, 38, 203-233.	12.3	88
13	Engineering of 2D transition metal carbides and nitrides MXenes for cancer therapeutics and diagnostics. Journal of Materials Chemistry B, 2020, 8, 4990-5013.	5.8	76
14	An overview of the optical properties and applications of black phosphorus. Nanoscale, 2020, 12, 3513-3534.	5.6	69
15	Fluorination-Enhanced Ambient Stability and Electronic Tolerance of Black Phosphorus Quantum Dots. Advanced Science, 2018, 5, 1800420.	11.2	67
16	2D-Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. Advanced Optical Materials, 2017, 5, 1700257.	7.3	64
17	Synergic effect of Cu ₂ O/MoS ₂ /rGO for the sonophotocatalytic degradation of tetracycline and ciprofloxacin antibiotics. Ceramics International, 2021, 47, 4226-4237.	4.8	58
18	Hybrid carbon nanostructured fibers: stepping stone for intelligent textile-based electronics. Nanoscale, 2019, 11, 3046-3101.	5.6	57

#	ARTICLE	IF	CITATIONS
19	Black Phosphorus Quantum Dots as an Efficient Saturable Absorber for Bound Soliton Operation in an Erbium Doped Fiber Laser. <i>IEEE Photonics Journal</i> , 2016, 8, 1-10.	2.0	42
20	SiC Nanostructures Toward Biomedical Applications and Its Future Challenges. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2016, 41, 430-446.	12.3	36
21	Effect of Er doping on the ammonia sensing properties of ZnO thin films prepared by a nebulizer spray technique. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 144, 109513.	4.0	33
22	Advanced nanomaterials for hypoxia tumor therapy: challenges and solutions. <i>Nanoscale</i> , 2020, 12, 21497-21518.	5.6	32
23	Investigation of uni-directional nanorods composed microspheres and branched TiO ₂ nanorods towards solar cell application. <i>Materials Letters</i> , 2020, 273, 127900.	2.6	27
24	Logic with memory: and gates made of organic and inorganic memristive devices. <i>Semiconductor Science and Technology</i> , 2014, 29, 104009.	2.0	25
25	Solar Induced Photocatalytic Degradation of Methylene Blue by CdS/Ag ₂ O Nanocomposites. <i>ChemistrySelect</i> , 2020, 5, 4125-4135.	1.5	23
26	Few-layer Bismuthene: Sonochemical Exfoliation, Nonlinear Optics and Applications for Ultrafast Photonics with Enhanced Stability (<i>Laser Photonics Rev.</i> 12(1)/2018). <i>Laser and Photonics Reviews</i> , 2018, 12, 1870012.	8.7	19
27	Evaluation of nanoindentation and nanoscratch characteristics of GaN/InGaN epilayers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 683, 64-69.	5.6	17
28	Graphene Photonics, Optoelectronics, and Plasmonics. , 0, , .		17
29	2D GeP-based photonic device for near-infrared and mid-infrared ultrafast photonics. <i>Nanophotonics</i> , 2020, 9, 3645-3654.	6.0	14
30	Hydrogen plasma treatment confers enhanced bioactivity to silicon carbide-based nanowires promoting osteoblast adhesion. <i>Materials Science and Engineering C</i> , 2021, 121, 111772.	7.3	13
31	Realization of Ti MOF/MoS ₂ hybrid nanostructure and their catalytic activity towards 4-nitrophenol reduction. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1760-1769.	5.8	13
32	3C-SiC nanowires luminescence enhancement by coating with a conformal oxides layer. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 394006.	2.8	12
33	Facile synthesis and characterisation of green luminescent carbon nanodots prepared from tender coconut water using the acid-assisted ultrasonic route. <i>Micro and Nano Letters</i> , 2020, 15, 920-924.	1.3	12
34	Biogenic synthesis of copper oxide nanoparticles using leaf extracts of <i>Cissus quadrangularis</i> and <i>Piper betle</i> and its antibacterial effects. <i>Micro and Nano Letters</i> , 2021, 16, 419-424.	1.3	11
35	Studies of nanoindentation and residual stress analysis of Ge/GaAs epilayers. <i>Semiconductor Science and Technology</i> , 2015, 30, 055004.	2.0	9
36	Influence of Surface Roughness on Interdiffusion Processes in InGaP/Ge Heteroepitaxial Thin Films. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, P53-P56.	1.8	9

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37	Facile and large scale aqueous synthesis of CdS nanoparticles at room temperature towards optoelectronic applications. <i>Materials Research Express</i> , 2018, 5, 105003.	1.6	9
38	Methanol solvent effect on photosensing performance of AZO thin films grown by nebulizer spray pyrolysis. <i>Semiconductor Science and Technology</i> , 2020, 35, 085013.	2.0	8
39	Recent Advances and Need of Green Synthesis in Two-Dimensional Materials for Energy Conversion and Storage Applications. <i>Current Nanoscience</i> , 2021, 17, 554-571.	1.2	8
40	MOVPE growth and characterization of heteroepitaxial germanium on silicon using iBuGe as precursor. <i>Applied Surface Science</i> , 2016, 360, 157-163.	6.1	5
41	Two-dimensional material-based printed photonics: a review. <i>2D Materials</i> , 2022, 9, 042003.	4.4	5
42	Optimization of synthesis protocols to control the nanostructure and the morphology of metal oxide thin films for memristive applications. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	4
43	Evaluation of microindentation properties of epitaxial 3C-SiC/Si thin films. <i>Physica B: Condensed Matter</i> , 2016, 490, 86-89.	2.7	4
44	Transition metal carbide-MXene. , 2021, , 671-709.		4
45	Nanoindentation Studies of Metal Organic Vapor Phase Epitaxy Grown Ge/Si Heterostructures. <i>Energy and Environment Focus</i> , 2013, 2, 85-89.	0.3	2
46	Realisation of CdS/Mn 3 O 4 nanocomposites for potential photocatalytic applications. <i>Micro and Nano Letters</i> , 2020, 15, 742-745.	1.3	2
47	Nanoindentation studies of gallium arsenide heteroepitaxial layers. <i>Crystal Research and Technology</i> , 2014, 49, 575-580.	1.3	1
48	Quantum Dots: Fluorination-Enhanced Ambient Stability and Electronic Tolerance of Black Phosphorus Quantum Dots (<i>Adv. Sci.</i> 9/2018). <i>Advanced Science</i> , 2018, 5, 1870055.	11.2	1
49	Influence of doping on the nanomechanical behavior of InGaP/Ge thin films. <i>Materials Letters</i> , 2016, 171, 95-99.	2.6	0
50	Nanoparticles as Precious Stones in the Crown of Modern Molecular Biology. , 2018, , 331-351.		0
51	Antimicrobial activity of transition metal (II) complexes based on a Mannich base ligand. <i>Emerging Materials Research</i> , 2021, 10, 85-89.	0.7	0
52	PHYLOGENETIC ANALYSIS OF ENDEMIC FISH SPECIES OF OHRID LAKE. , 2018, , .		0
53	Two-dimensional Material based Printed Photonics: A Review. <i>2D Materials</i> , 0, , .	4.4	0