

# Joice Sophia Ponraj

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Realization of Ti MOF/MoS <sub>2</sub> hybrid nanostructure and their catalytic activity towards 4-nitrophenol reduction. Journal of Materials Research and Technology, 2022, 17, 1760-1769.          | 5.8 | 13        |
| 2  | Two-dimensional material-based printed photonics: a review. 2D Materials, 2022, 9, 042003.  | 4.4 | 5         |
| 3  | Synergic effect of Cu <sub>2</sub> O/MoS <sub>2</sub> /rGO for the sonophotocatalytic degradation of tetracycline and ciprofloxacin antibiotics. Ceramics International, 2021, 47, 4226-4237.         | 4.8 | 58        |
| 4  | Transition metal carbide MXene. , 2021, , 671-709.  |     | 4         |
| 5  | Hydrogen plasma treatment confers enhanced bioactivity to silicon carbide-based nanowires promoting osteoblast adhesion. Materials Science and Engineering C, 2021, 121, 111772.                      | 7.3 | 13        |
| 6  | Antimicrobial activity of transition metal (II) complexes based on a Mannich base ligand. Emerging Materials Research, 2021, 10, 85-89.   | 0.7 | 0         |
| 7  | Biogenic synthesis of copper oxide nanoparticles using leaf extracts of <i>Cissus quadrangularis</i> and <i>Piper betle</i> and its antibacterial effects. Micro and Nano Letters, 2021, 16, 419-424. | 1.3 | 11        |
| 8  | Recent Advances and Need of Green Synthesis in Two-Dimensional Materials for Energy Conversion and Storage Applications. Current Nanoscience, 2021, 17, 554-571.                                      | 1.2 | 8         |
| 9  | An overview of the optical properties and applications of black phosphorus. Nanoscale, 2020, 12, 3513-3534.   | 5.6 | 69        |
| 10 | Enhancement of optoelectronic parameters of Nd-doped ZnO nanowires for photodetector applications. Optical Materials, 2020, 109, 110396.  | 3.6 | 129       |
| 11 | Advanced nanomaterials for hypoxia tumor therapy: challenges and solutions. Nanoscale, 2020, 12, 21497-21518.   | 5.6 | 32        |
| 12 | Methanol solvent effect on photosensing performance of AZO thin films grown by nebulizer spray pyrolysis. Semiconductor Science and Technology, 2020, 35, 085013.                                     | 2.0 | 8         |
| 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 | Investigation of uni-directional nanorods composed microspheres and branched TiO <sub>2</sub> nanorods towards solar cell application. Materials Letters, 2020, 273, 127900.                          | 2.6 | 27        |
| 15 | Solar Induced Photocatalytic Degradation of Methylene Blue by CdS/Ag <sub>2</sub> O Nanocomposites. ChemistrySelect, 2020, 5, 4125-4135.  | 1.5 | 23        |
| 16 | Effect of Er doping on the ammonia sensing properties of ZnO thin films prepared by a nebulizer spray technique. Journal of Physics and Chemistry of Solids, 2020, 144, 109513.                       | 4.0 | 33        |
| 17 | Realisation of CdS/Mn <sub>3</sub> O <sub>4</sub> nanocomposites for potential photocatalytic applications. Micro and Nano Letters, 2020, 15, 742-745.  | 1.3 | 2         |
| 18 | Facile synthesis and characterisation of green luminescent carbon nanodots prepared from tender coconut water using the acid-assisted ultrasonic route. Micro and Nano Letters, 2020, 15, 920-924.    | 1.3 | 12        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | 2D GeP-based photonic device for near-infrared and mid-infrared ultrafast photonics. <i>Nanophotonics</i> , 2020, 9, 3645-3654.  | 6.0  | 14        |
| 20 | Hybrid carbon nanostructured fibers: stepping stone for intelligent textile-based electronics. <i>Nanoscale</i> , 2019, 11, 3046-3101.   | 5.6  | 57        |
| 21 | 2D Tellurium Based High-Performance All-Optical Nonlinear Photonic Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1806346.  | 14.9 | 165       |
| 22 | 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        |
| 23 | High-Performance Photo-Electrochemical Photodetector Based on Liquid-Exfoliated Few-Layered InSe Nanosheets with Enhanced Stability. <i>Advanced Functional Materials</i> , 2018, 28, 1705237.                                       | 14.9 | 258       |
| 24 | Few-Layer Bismuthene: Sonochemical Exfoliation, Nonlinear Optics and Applications for Ultrafast Photonics with Enhanced Stability. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700221.   | 8.7  | 311       |
| 25 | 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         |
| 26 | Nanoparticles as Precious Stones in the Crown of Modern Molecular Biology. , 2018, , 331-351.  |      | 0         |
| 27 | 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         |
| 28 | Fluorination-Enhanced Ambient Stability and Electronic Tolerance of Black Phosphorus Quantum Dots. <i>Advanced Science</i> , 2018, 5, 1800420.   | 11.2 | 67        |
| 29 | PHYLOGENETIC ANALYSIS OF ENDEMIC FISH SPECIES OF OHRID LAKE. , 2018, , .   |      | 0         |
| 30 | Emerging Trends in Phosphorene Fabrication towards Next Generation Devices. <i>Advanced Science</i> , 2017, 4, 1600305.  | 11.2 | 285       |
| 31 | Few-Layer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2017, 7, 1700396.   | 19.5 | 301       |
| 32 | Evaluation of nanoindentation and nanoscratch characteristics of GaN/InGaN epilayers. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 683, 64-69.              | 5.6  | 17        |
| 33 | 2D "Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. <i>Advanced Optical Materials</i> , 2017, 5, 1700257.   | 7.3  | 64        |
| 34 | 2D Nonlayered Selenium Nanosheets: Facile Synthesis, Photoluminescence, and Ultrafast Photonics. <i>Advanced Optical Materials</i> , 2017, 5, 1700884.   | 7.3  | 162       |
| 35 | 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        |
| 36 | Evaluation of microindentation properties of epitaxial 3C-SiC/Si thin films. <i>Physica B: Condensed Matter</i> , 2016, 490, 86-89.  | 2.7  | 4         |

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|----|--|------|-----------|
| 37 | Black Phosphorus Quantum Dots as an Efficient Saturable Absorber for Bound Soliton Operation in an Erbium Doped Fiber Laser. IEEE Photonics Journal, 2016, 8, 1-10.              | 2.0  | 42        |
| 38 | Photonics and optoelectronics of two-dimensional materials beyond graphene. Nanotechnology, 2016, 27, 462001.  | 2.6  | 259       |
| 39 | Scalable Production of a Few-Layer MoS <sub>2</sub> /WS <sub>2</sub> Vertical Heterojunction Array and Its Application for Photodetectors. ACS Nano, 2016, 10, 573-580.          | 14.6 | 362       |
| 40 | Influence of doping on the nanomechanical behavior of InGaP/Ge thin films. Materials Letters, 2016, 171, 95-99.  | 2.6  | 0         |
| 41 | Present perspectives of broadband photodetectors based on nanobelts, nanoribbons, nanosheets and the emerging 2D materials. Nanoscale, 2016, 8, 6410-6434.                       | 5.6  | 233       |
| 42 | MOVPE growth and characterization of heteroepitaxial germanium on silicon using iBuGe as precursor. Applied Surface Science, 2016, 360, 157-163.                                 | 6.1  | 5         |
| 43 | Studies of nanoindentation and residual stress analysis of Ge/GaAs epilayers. Semiconductor Science and Technology, 2015, 30, 055004.  | 2.0  | 9         |
| 44 | Synthesis and Transfer of Large-Area Monolayer WS <sub>2</sub> Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. ACS Nano, 2015, 9, 6178-6187.                  | 14.6 | 200       |
| 45 | Influence of Surface Roughness on Interdiffusion Processes in InGaP/Ge Heteroepitaxial Thin Films. ECS Journal of Solid State Science and Technology, 2015, 4, P53-P56.          | 1.8  | 9         |
| 46 | Optimization of synthesis protocols to control the nanostructure and the morphology of metal oxide thin films for memristive applications. AIP Conference Proceedings, 2015, , . | 0.4  | 4         |
| 47 | 3C-SiC nanowires luminescence enhancement by coating with a conformal oxides layer. Journal Physics D: Applied Physics, 2014, 47, 394006.  | 2.8  | 12        |
| 48 | Logic with memory: and gates made of organic and inorganic memristive devices. Semiconductor Science and Technology, 2014, 29, 104009.   | 2.0  | 25        |
| 49 | Nanoindentation studies of gallium arsenide heteroepitaxial layers. Crystal Research and Technology, 2014, 49, 575-580.  | 1.3  | 1         |
| 50 | 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        |
| 51 | Nanoindentation Studies of Metal Organic Vapor Phase Epitaxy Grown Ge/Si Heterostructures. Energy and Environment Focus, 2013, 2, 85-89.   | 0.3  | 2         |
| 52 | Graphene Photonics, Optoelectronics, and Plasmonics. , 0, , .  |      | 17        |
| 53 | Two-dimensional Material based Printed Photonics: A Review. 2D Materials, 0, , .   | 4.4  | 0         |