# sima umrao

## List of Publications by Year in descending order



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|---|---|---|---|
| 28 papers | 1,425 citations | 331259 21 h-index | 500791 28 g-index |
| 31 all docs | 31 docs citations | 31 times ranked | 2476 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nanosheets Based Approach to Elevate the Proliferative and Differentiation Efficacy of Human Whartonâ€™s Jelly Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2022, 23, 5816. | 1.8 | 3 |
| 2 | Influence of nanostructured SnS thin films for visible light photo detection. Optical Materials, 2021, 121, 111489. | 1.7 | 36 |
| 3 | Sonochemical self-growth of functionalized titanium carbide nanorods on Ti3C2 nanosheets for high capacity anode for lithium-ion batteries. Composites Part B: Engineering, 2020, 181, 107583. | 5.9 | 41 |
| 4 | Orbital facilitated charge transfer originated phonon mode in Crâ€substituted PrFeO<sub>3</sub>: A brief Raman study. Journal of Raman Spectroscopy, 2020, 51, 1210-1218. | 1.2 | 22 |
| 5 | MXene artificial muscles based on ionically cross-linked Ti <sub>3</sub> C <sub>2</sub> T <sub> x </sub> electrode for kinetic soft robotics. Science Robotics, 2019, 4, . | 9.9 | 169 |
| 6 | Crumpled Quaternary Nanoarchitecture of Sulfur-Doped Nickel Cobalt Selenide Directly Grown on Carbon Cloth for Making Stronger Ionic Soft Actuators. ACS Applied Materials & Interfaces, 2019, 11, 40451-40460. | 4.0 | 21 |
| 7 | Graphene Mesh for Selfâ€Sensing Ionic Soft Actuator Inspired from Mechanoreceptors in Human Body. Advanced Science, 2019, 6, 1901711. | 5.6 | 29 |
| 8 | Mutually Exclusive pâ€Type and nâ€Type Hybrid Electrode of MoS<sub>2</sub> and Graphene for Artificial Soft Touch Fingers. Advanced Functional Materials, 2019, 29, 1905454. | 7.8 | 30 |
| 9 | Anticarcinogenic activity of blue fluorescent hexagonal boron nitride quantum dots: as an effective enhancer for DNA cleavage activity of anticancer drug doxorubicin. Materials Today Bio, 2019, 1, 100001. | 2.6 | 13 |
| 10 | Self-aligned and hierarchically porous graphene-polyurethane foams for acoustic wave absorption. Carbon, 2019, 147, 510-518. | 5.4 | 45 |
| 11 | Integrated dielectric-electrode layer for triboelectric nanogenerator based on Cu nanowire-Mesh hybrid electrode. Nano Energy, 2019, 59, 120-128. | 8.2 | 37 |
| 12 | In Situ Functionalized Fluorescent WS<sub>2</sub>-QDs as Sensitive and Selective Probe for Fe<sup>3+</sup> and a Detailed Study of Its Fluorescence Quenching. ACS Applied Nano Materials, 2019, 2, 566-576. | 2.4 | 57 |
| 13 | Highly sensitive and selective estimation of aspartame by chitosan nanoparticlesâ€“graphene nanocomposite tailored EQCM-MIP sensor. Polymer Bulletin, 2019, 76, 4431-4449. | 1.7 | 13 |
| 14 | Catalytically Active Enzyme Mimetic Nanomaterials and Their Role in Biosensing. , 2018, , 285-300. | | 0 |
| 15 | Eu:Y2O3 highly dispersed fluorescent PVA film as turn off luminescent probe for enzyme free detection of H2O2. Sensors and Actuators B: Chemical, 2017, 247, 170-178. | 4.0 | 24 |
| 16 | Large-Area Highly Conductive Transparent Two-Dimensional Ti<sub>2</sub>CT<sub>x</sub> Film. Journal of Physical Chemistry Letters, 2017, 8, 859-865. | 2.1 | 118 |
| 17 | pH Dependent Optical Switching and Fluorescence Modulation of Molybdenum Sulfide Quantum Dots. Advanced Optical Materials, 2017, 5, 1601021. | 3.6 | 32 |
| 18 | A homogeneous atomic layer MoS<sub>2(1â^'x)</sub>Se<sub>2x</sub>alloy prepared by low-pressure chemical vapor deposition, and its properties. Nanoscale, 2017, 9, 594-603. | 2.8 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Microwave-assisted boron and nitrogen co-doped reduced graphene oxide as a transparent conductive electrode. Applied Physics Letters, 2017, 111, . | 1.5 | 9 |
| 20 | A novel Raman spectroscopic approach to identify polymorphism in leflunomide: a combined experimental and theoretical study. Journal of Raman Spectroscopy, 2016, 47, 468-475. | 1.2 | 9 |
| 21 | Synthesis, Characterization, and Tribological Evaluation of TiO<sub>2</sub>-Reinforced Boron and Nitrogen co-Doped Reduced Graphene Oxide Based Hybrid Nanomaterials as Efficient Antiwear Lubricant Additives. ACS Applied Materials & Interfaces, 2016, 8, 11698-11710. | 4.0 | 104 |
| 22 | Multi-layered graphene quantum dots derived photodegradation mechanism of methylene blue. RSC Advances, 2015, 5, 51790-51798. | 1.7 | 35 |
| 23 | Microwave-Assisted Synthesis of Boron and Nitrogen co-doped Reduced Graphene Oxide for the Protection of Electromagnetic Radiation in Ku-Band. ACS Applied Materials & Interfaces, 2015, 7, 19831-19842. | 4.0 | 145 |
| 24 | Microwave bottom-up route for size-tunable and switchable photoluminescent graphene quantum dots using acetylacetone: New platform for enzyme-free detection of hydrogen peroxide. Carbon, 2015, 81, 514-524. | 5.4 | 93 |
| 25 | Facile, rapid and upscaled synthesis of green luminescent functional graphene quantum dots for bioimaging. RSC Advances, 2014, 4, 21101. | 1.7 | 61 |
| 26 | A possible mechanism for the emergence of an additional band gap due to a Tiâ€“Oâ€“C bond in the TiO<sub>2</sub>â€“graphene hybrid system for enhanced photodegradation of methylene blue under visible light. RSC Advances, 2014, 4, 59890-59901. | 1.7 | 143 |
| 27 | Graphene Oxide-Based Biosensor for Food Toxin Detection. Applied Biochemistry and Biotechnology, 2014, 174, 960-970. | 1.4 | 60 |
| 28 | Nanostructured palladium-reduced graphene oxide platform for high sensitive, label free detection of a cancer biomarker. RSC Advances, 2013, 4, 2267-2273. | 1.7 | 38 |