

# Amar Ratan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7443836/publications.pdf>

Version: 2024-02-01

13  
papers

125  
citations

1307594

7  
h-index

1281871

11  
g-index

13  
all docs

13  
docs citations

13  
times ranked

117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous metal oxide $\pm$ -Fe <sub>2</sub> O <sub>3</sub> nanocomposites for sensing formaldehyde and ethanol at room temperature. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 145, 109536.	4.0	21
2	Impedimetric humidity sensing studies of Ag doped MCM-41 mesoporous silica coated on silver sputtered interdigitated electrodes. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 145, 109531.	4.0	17
3	Mesoporous silica mediated synthesis of $\pm$ -Fe <sub>2</sub> O <sub>3</sub> porous structures and their application as humidity sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20506-20516.	2.2	13
4	Enhanced electrical properties of few layers MoS <sub>2</sub> -PVA nanocomposite film via homogeneous dispersion and annealing effect induced by 80 $\text{\AA}$ MeV Carbon <sup>6+</sup> swift heavy ion irradiation. <i>Materials Science in Semiconductor Processing</i> , 2020, 108, 104877.	4.0	12
5	100 $\text{\AA}$ MeV Silicon <sup>9+</sup> swift heavy ion irradiation - Strategic defect annealing approach to enhance the electrical conductivity of few-layered MoS <sub>2</sub> sheets - PVA nanocomposite film. <i>Vacuum</i> , 2019, 169, 108939.	3.5	11
6	Multifunctional biogenically synthesized porous multi-walled carbon nanotubes dispersed polymer electrolyte-based supercapacitor. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	11
7	Enhanced photo-current conversion efficiency by incorporation of succinonitrile in N-Phthaloylchitosan based bio-polymer electrolyte for dye sensitized solar cell. <i>Optik</i> , 2020, 222, 165467.	2.9	8
8	Synthesis and characterizations of highly ordered KCl $\pm$ -MCM $\pm$ -41 porous nanocomposites for impedimetric humidity sensing. <i>Journal of Porous Materials</i> , 2019, 26, 389-398.	2.6	7
9	Swift heavy ion beam modified MoS <sub>2</sub> - PVA nanocomposite free-standing electrodes for polymeric electrolyte based asymmetric supercapacitor. <i>Vacuum</i> , 2021, 184, 109992.	3.5	7
10	Cr doped MCM-41 nanocomposites: an efficient mesoporous catalyst facilitating conversion of toluene to benzaldehyde, an industrial precursor. <i>Journal of Porous Materials</i> , 2019, 26, 239-246.	2.6	6
11	Physio-chemical influence of high electron-phonon coupling induced by 120 $\text{\AA}$ MeV Ag <sup>9+</sup> SHI irradiation on exfoliated MoS <sub>2</sub> - PVA nanocomposite films for achieving remarkable electrical conductivity for potential application in organic electronics. <i>Polymer Testing</i> , 2020, 91, 106776.	4.8	5
12	Humidity sensing of Mg doped MCM-41 on silver sputtered thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15646-15653.	2.2	4
13	Biogenic synthesis and thermo $\pm$ magnetic study of highly porous carbon nanotubes. <i>IET Nanobiotechnology</i> , 2019, 13, 363-367.	3.8	3