

# Raja Sellappan

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

20  
papers

316  
citations

10  
h-index

17  
g-index

22  
ext. papers

391  
ext. citations

4  
avg, IF

3.26  
L-index

#	Paper	IF	Citations
20	Effects of plasmon excitation on photocatalytic activity of Ag/TiO <sub>2</sub> and Au/TiO <sub>2</sub> nanocomposites. <i>Journal of Catalysis</i> , <b>2013</b> , 307, 214-221	7.3	65
19	Influence of graphene synthesizing techniques on the photocatalytic performance of graphene-TiO <sub>2</sub> nanocomposites. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 15528-37	3.6	37
18	The demonstration of hybrid n-ZnO nanorod/p-polymer heterojunction light emitting diodes on glass substrates. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 95, 807-812	2.6	25
17	Preparation and characterization of TiO <sub>2</sub> /carbon composite thin films with enhanced photocatalytic activity. <i>Journal of Molecular Catalysis A</i> , <b>2011</b> , 335, 136-144		23
16	Highly Porous MIL-100(Fe) for the Hydrogen Evolution Reaction (HER) in Acidic and Basic Media. <i>ACS Omega</i> , <b>2020</b> , 5, 18941-18949	3.9	23
15	On the mechanism of enhanced photocatalytic activity of composite TiO <sub>2</sub> /carbon nanofilms. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 106, 337-342	21.8	22
14	Cu based Metal Organic Framework (Cu-MOF) for electrocatalytic hydrogen evolution reaction. <i>Materials Research Express</i> , <b>2020</b> , 7, 114001	1.7	21
13	Tuning light absorption by band gap engineering in ZnCdO as a function of MOVPE-synthesis conditions and annealing. <i>Journal of Crystal Growth</i> , <b>2011</b> , 315, 301-304	1.6	20
12	Nanostructures for Enhanced Light Absorption in Solar Energy Devices. <i>International Journal of Photoenergy</i> , <b>2011</b> , 2011, 1-11	2.1	19
11	Emission reduction in CI engine using biofuel reformulation strategies through nano additives for atmospheric air quality improvement. <i>Renewable Energy</i> , <b>2020</b> , 147, 2295-2308	8.1	19
10	Oxidation of copper nanoparticles in water monitored in situ by localized surface plasmon resonance spectroscopy. <i>RSC Advances</i> , <b>2014</b> , 4, 20659	3.7	10
9	Synthesis of heterojunction tungsten oxide (WO <sub>3</sub> ) and Bismuth vanadate (BiVO <sub>4</sub> ) photoanodes by spin coating method for solar water splitting applications. <i>Materials Today: Proceedings</i> , <b>2021</b> , 45, 3920-3926	1.4	7
8	Role of graphene in NiSe <sub>2</sub> /graphene composites - Synthesis and testing for electrochemical supercapacitors. <i>Diamond and Related Materials</i> , <b>2020</b> , 108, 107983	3.5	6
7	Phosphorene, antimonene, silicene and siloxene based novel 2D electrode materials for supercapacitors-A brief review. <i>Journal of Energy Storage</i> , <b>2022</b> , 48, 104027	7.8	5
6	Photoelectrochemical behaviour of CuBi <sub>2</sub> O <sub>4</sub> @MoS <sub>2</sub> photocathode for solar water splitting. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 261, 124245	4.4	4
5	Electrodeposition and Characterization of Polyaniline Films for the Detection of Staphylococcus Aureus Bacteria in Food Products. <i>Sensor Letters</i> , <b>2017</b> , 15, 65-70	0.9	3
4	PANI/TiO nanocomposite-based chemiresistive gas sensor for the detection of bacteria. <i>IET Nanobiotechnology</i> , <b>2020</b> , 14, 761-765	2	2

3	Thermal decomposition derived nano molybdenum nitride for robust counter electrode in dye-sensitized solar cells. <i>Materials Today Communications</i> , <b>2021</b> , 26, 102070	2.5	2
2	Synthesis and analysis of Mo <sub>2</sub> N as efficient counter electrodes for dye sensitized solar cells. <i>Materials Today: Proceedings</i> , <b>2021</b> , 35, 53-56	1.4	2
1	Fabrication and Characterization of PANI/Ag Nanocomposites Voltammetric Sensor for Foodborne Bacteria. <i>Nanoscience and Nanotechnology - Asia</i> , <b>2020</b> , 10, 51-56	0.7	