

# Sumanta Jana

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

487  
citations

759055

12  
h-index

677027

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

882  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new strategy to fabricate SnS-SnO <sub>2</sub> heterostructure with excellent photoresponse and charge transport properties: Efficient photocatalyst for fast photoreduction of Cr(VI). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 275, 115520.	1.7	8
2	An experimental and theoretical exploration of supramolecular interactions and photoresponse properties of two Ni( $\text{Ni}(\text{L})_2$ ) complexes. New Journal of Chemistry, 2021, 45, 12108-12119.	1.4	8
3	Fabrication of a new heterostructure Au/Pt/SnO <sub>2</sub> : An excellent catalyst for fast reduction of para-nitrophenol and visible light assisted photodegradation of dyes. Materials Research Bulletin, 2021, 141, 111351.	2.7	21
4	Tetra- and poly-nuclear Cd( $\text{Cd}(\text{L})_2$ ) complexes of an N <sub>3</sub> O <sub>4</sub> Schiff base ligand: crystal structures, electrical conductivity and photoswitching properties. New Journal of Chemistry, 2020, 44, 14733-14743.	1.4	12
5	Enhanced photocatalytic activity of ternary CuInS <sub>2</sub> nanocrystals synthesized from the combination of a binary Cu(I)S precursor and InCl <sub>3</sub> . Journal of Nanoparticle Research, 2018, 20, 1.	0.8	10
6	Fabrication of stable NiO/Fe <sub>2</sub> O <sub>3</sub> heterostructure: A versatile hybrid material for electrochemical sensing of glucose, methanol and enhanced photodecomposition and photoreduction of water contaminants. Applied Catalysis B: Environmental, 2018, 232, 26-36.	10.8	45
7	Facile synthesis of nickel oxide thin films from PVP encapsulated nickel sulfide thin films: an efficient material for electrochemical sensing of glucose, hydrogen peroxide and photodegradation of dye. New Journal of Chemistry, 2017, 41, 14985-14994.	1.4	18
8	A pyrazolyl-based thiolato single-source precursor for the selective synthesis of isotropic copper-deficient copper(I) sulfide nanocrystals: synthesis, optical and photocatalytic activity. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	9
9	Single-source mediated facile electrosynthesis of p-Cu <sub>2</sub> S thin films on TCO (SnO <sub>2</sub> :F) with enhanced photocatalytic activities. RSC Advances, 2015, 5, 52235-52242.	1.7	9
10	Electrochemical synthesis of FeS <sub>2</sub> thin film: An effective material for peroxide sensing and terephthalic acid degradation. Journal of Alloys and Compounds, 2015, 646, 893-899.	2.8	10
11	A new pyrazolyl dithioate function in the precursor for the shape controlled growth of CdS nanocrystals: optical and photocatalytic activities. New Journal of Chemistry, 2015, 39, 9487-9496.	1.4	24
12	Synthesis, characterization and electrocatalytic activity of SnO <sub>2</sub> , Pt@SnO <sub>2</sub> thin films for methanol oxidation. Chemical Physics, 2014, 439, 44-48.	0.9	12
13	Effect of annealing on structural and optical properties of diamond-like nanocomposite thin films. Applied Physics A: Materials Science and Processing, 2014, 114, 965-972.	1.1	22
14	Photocatalytic activity of galvanically synthesized nanostructure SnO <sub>2</sub> thin films. Journal of Alloys and Compounds, 2014, 602, 42-48.	2.8	31
15	Precursor-driven selective synthesis of hexagonal chalcocite (Cu <sub>2</sub> S) nanocrystals: structural, optical, electrical and photocatalytic properties. New Journal of Chemistry, 2014, 38, 4774-4782.	1.4	38
16	Nickel oxide thin film from electrodeposited nickel sulfide thin film: peroxide sensing and photo-decomposition of phenol. Dalton Transactions, 2014, 43, 13096-13104.	1.6	39
17	Fabrication of SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> , SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> @PB Heterostructure Thin Films: Enhanced Photodegradation and Peroxide Sensing. ACS Applied Materials & Interfaces, 2014, 6, 15832-15840.	4.0	51
18	Impact of annealing on the electrodeposited WS <sub>2</sub> thin films: Enhanced photodegradation of coupled semiconductor. Applied Surface Science, 2014, 317, 154-159.	3.1	31

#	ARTICLE	IF	CITATIONS
19	Electrodeposited polymer encapsulated nickel sulphide thin films: frequency switching material. Applied Surface Science, 2014, 300, 154-158.	3.1	13
20	Electrodeposition of polymer encapsulated cobalt sulfide thin films: search for a frequency switching material. Materials Letters, 2013, 109, 51-54.	1.3	3
21	Cathodic and anodic deposition of FeS <sub>2</sub> thin films and their application in electrochemical reduction and amperometric sensing of H <sub>2</sub> O <sub>2</sub> . Electrochimica Acta, 2013, 94, 7-15.	2.6	26
22	Photocatalytic degradation of organic dye on porous iron sulfide film surface. Journal of Colloid and Interface Science, 2013, 393, 286-290.	5.0	39
23	Photo-induced exciton generation in polyvinylpyrrolidone encapsulated Ag <sub>2</sub> S core-shells: Electrochemical deposition, regular shape and high order of particle size distribution. Journal of Applied Physics, 2012, 112, 124324.	1.1	8