

# Soumen Dutta

## List of Publications by Year in descending order

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52  
papers

2,914  
citations

159358

30  
h-index

197535

49  
g-index

52  
all docs

52  
docs citations

52  
times ranked

4859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Supported Nickel Iron Layered Double Hydroxide-Nickel Selenide Electrocatalyst for Superior Water Splitting Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33766-33774.	4.0	257
2	Silver Nanoparticle Decorated Reduced Graphene Oxide (rGO) Nanosheet: A Platform for SERS Based Low-Level Detection of Uranyl Ion. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8724-8732.	4.0	256
3	Promoting electrocatalytic overall water splitting with nano hybrid of transition metal nitride-oxy nitride. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 521-527.	10.8	197
4	A ternary Cu <sub>2</sub> O@Cu@CuO nanocomposite: a catalyst with intriguing activity. <i>Dalton Transactions</i> , 2016, 45, 3139-3150.	1.6	178
5	Redox-Switchable Copper(I) Metallogel: A Metal-Organic Material for Selective and Naked-Eye Sensing of Picric Acid. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 6308-6316.	4.0	137
6	A Gel-Based Approach To Design Hierarchical CuS Decorated Reduced Graphene Oxide Nanosheets for Enhanced Peroxidase-like Activity Leading to Colorimetric Detection of Dopamine. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23790-23800.	1.5	124
7	Intrinsic peroxidase-like activity of mesoporous nickel oxide for selective cysteine sensing. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6097.	2.9	105
8	Mesoporous Gold and Palladium Nanoleaves from Liquid-Liquid Interface: Enhanced Catalytic Activity of the Palladium Analogue toward Hydrazine-Assisted Room-Temperature 4-Nitrophenol Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9134-9143.	4.0	85
9	Electrochemically activated cobalt nickel sulfide for an efficient oxygen evolution reaction: partial amorphization and phase control. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3592-3602.	5.2	81
10	Chemical and structural engineering of transition metal boride towards excellent and sustainable hydrogen evolution reaction. <i>Nano Energy</i> , 2020, 67, 104245.	8.2	79
11	Redox-Responsive Copper(I) Metallogel: A Metal-Organic Hybrid Sorbent for Reductive Removal of Chromium(VI) from Aqueous Solution. <i>Langmuir</i> , 2014, 30, 7833-7841.	1.6	77
12	Highly Mesoporous Metal-Organic Frameworks as Synergistic Multimodal Catalytic Platforms for Divergent Cascade Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3416-3422.	7.2	75
13	Au@Pd core-shell nanoparticles-decorated reduced graphene oxide: a highly sensitive and selective platform for electrochemical detection of hydrazine. <i>RSC Advances</i> , 2015, 5, 51690-51700.	1.7	71
14	Holey Pt Nanosheets on NiFe-Hydroxide Laminates: Synergistically Enhanced Electrocatalytic 2D Interface toward Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2020, 14, 10578-10588.	7.3	66
15	Hierarchical Au@CuO nanocomposite from redox transformation reaction for surface enhanced Raman scattering and clock reaction. <i>CrystEngComm</i> , 2014, 16, 883-893.	1.3	65
16	Fabrication of dog-bone shaped Au NR <sub>core</sub> @Pt/Pd <sub>shell</sub> trimetallic nanoparticle-decorated reduced graphene oxide nanosheets for excellent electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3765-3776.	5.2	60
17	Suitable Morphology Makes CoSn(OH) <sub>6</sub> Nanostructure a Superior Electrochemical Pseudocapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17987-17998.	4.0	58
18	An Intriguing Pea-Like Nanostructure of Cobalt Phosphide on Molybdenum Carbide Incorporated Nitrogen-Doped Carbon Nanosheets for Efficient Electrochemical Water Splitting. <i>ChemSusChem</i> , 2018, 11, 3956-3964.	3.6	55

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19	Facile Synthesis of Unique Hexagonal Nanoplates of Zn/Co Hydroxy Sulfate for Efficient Electrocatalytic Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 8134-8141.	4.0	53
20	Crystal Facet-Manipulated 2D Pt Nanodendrites to Achieve an Intimate Heterointerface for Hydrogen Evolution Reactions. Journal of the American Chemical Society, 2022, 144, 9033-9043.	6.6	53
21	Liquor ammonia mediated V( $\text{V}^{5+}$ ) insertion in thin $\text{Co}_3\text{O}_4$ sheets for improved pseudocapacitors with high energy density and high specific capacitance value. Chemical Communications, 2015, 51, 15986-15989.	2.2	52
22	Biomolecule-mediated $\text{CdS-TiO}_2$ -reduced graphene oxide ternary nanocomposites for efficient visible light-driven photocatalysis. Dalton Transactions, 2015, 44, 193-201.	1.6	51
23	Facile Synthesis of Bimetallic Au-Pt, Pd-Pt, and Au-Pd Nanostructures: Enhanced Catalytic Performance of Pd-Pt Analogue towards Fuel Cell Application and Electrochemical Sensing. Electrochimica Acta, 2015, 180, 1075-1084.	2.6	51
24	Superb Dye Adsorption and Dye-Sensitized Change in $\text{Cu}_2\text{O}$ Ag Crystal Faces in the Dark. Journal of Physical Chemistry C, 2016, 120, 21580-21588.	1.5	46
25	Electrochemical Energy Conversion and Storage with Zeolitic Imidazolate Framework Derived Materials: A Perspective. ChemElectroChem, 2018, 5, 3571-3588.	1.7	46
26	A new stable $\text{Pd-Mn}_3\text{O}_4$ nanocomposite as an efficient electrocatalyst for the hydrogen evolution reaction. Chemical Communications, 2016, 52, 6095-6098.	2.2	43
27	A facile synthesis of 1D nano structured selenium and Au decorated nano selenium: catalysts for the clock reaction. RSC Advances, 2013, 3, 24313.	1.7	42
28	Solid-State Reaction Synthesis of Nanoscale Materials: Strategies and Applications. Chemical Reviews, 2022, 122, 12748-12863.	23.0	35
29	Benzoin derived reduced graphene oxide (rGO) and its nanocomposite: application in dye removal and peroxidase-like activity. RSC Advances, 2013, 3, 21475.	1.7	34
30	Soft template induced phase selective synthesis of $\text{Fe}_2\text{O}_3$ nanomagnets: one step towards peroxidase-mimic activity allowing colorimetric sensing of thioglycolic acid. RSC Advances, 2016, 6, 32308-32318.	1.7	34
31	Self-templated Prussian blue analogue for efficient and robust electrochemical water oxidation. Journal of Catalysis, 2019, 369, 168-174.	3.1	30
32	Redox mediated synthesis of hierarchical $\text{Bi}_2\text{O}_3/\text{MnO}_2$ nanoflowers: a non-enzymatic hydrogen peroxide electrochemical sensor. Dalton Transactions, 2016, 45, 4780-4790.	1.6	28
33	Redox-Mediated Synthesis of a $\text{Fe}_3\text{O}_4$ - $\text{MnO}_2$ Nanocomposite for Dye Adsorption and Pseudocapacitance. Chemistry - an Asian Journal, 2015, 10, 1571-1580.	1.7	27
34	A two-component hydrogelator from citrazinic acid and melamine: synthesis, intriguing role of reaction parameters and iodine adsorption study. CrystEngComm, 2015, 17, 8119-8129.	1.3	26
35	Sensing trace arsenate by surface enhanced Raman scattering using a $\text{FeOOH}$ doped dendritic Ag nanostructure. Journal of Materials Chemistry A, 2015, 3, 10254-10257.	5.2	25
36	Fabrication of Nitrogen-Doped Mesoporous Carbon-Coated Palladium Nanoparticles: An Intriguing Electrocatalyst for Methanol and Formic Acid Oxidation. Chemistry - an Asian Journal, 2016, 11, 1588-1596.	1.7	25

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37	Highly Mesoporous Metal-Organic Frameworks as Synergistic Multimodal Catalytic Platforms for Divergent Cascade Reactions. <i>Angewandte Chemie</i> , 2020, 132, 3444-3450.	1.6	25
38	Facile synthesis of pyridine intercalated ultra-long $V_2O_5$ nanowire from commercial $V_2O_5$ : catalytic applications in selective dye degradation. <i>CrystEngComm</i> , 2014, 16, 7738.	1.3	24
39	Evolution of tubular copper sulfide nanostructures from copper(i)-metal organic precursor: a superior platform for the removal of Hg(ii) and Pb(ii) ions. <i>RSC Advances</i> , 2015, 5, 12446-12453.	1.7	20
40	Cu(II)-Based Nanofibrous Metallogel for Phenoxazinone Synthase-like Activity. <i>ACS Applied Nano Materials</i> , 2021, 4, 1455-1466.	2.4	20
41	Aromaticity driven interfacial synthetic strategy for porous platinum nanostructure: An efficient electrocatalyst for methanol and formic acid oxidation. <i>Electrochimica Acta</i> , 2015, 159, 52-60.	2.6	18
42	A pH dependent Raman and surface enhanced Raman spectroscopic studies of citrazinic acid aided by theoretical calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 169, 108-115.	2.0	14
43	Metal-organic framework based catalytic nanoreactors: synthetic challenges and applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3986-4021.	3.2	14
44	Tailored "Sandwich" Strategy in Surface Enhanced Raman Scattering: Case Study with <i>p</i> -Phenylenediamine and Application in Femtomolar Detection of Melamine. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28152-28161.	1.5	10
45	Arsenate stabilized Cu <sub>2</sub> O nanoparticle catalyst for one-electron transfer reversible reaction. <i>Dalton Transactions</i> , 2014, 43, 6677.	1.6	10
46	Silica-Enveloped 2D-Sheet-to-Nanocrystals Conversion for Resilient Catalytic Dry Reforming of Methane. <i>Small</i> , 2021, 17, e2102851.	5.2	9
47	Metal Bromide Controlled Interfacial Aromatization Reaction for Shape-Selective Synthesis of Palladium Nanostructures with Efficient Catalytic Performances. <i>Chemistry - A European Journal</i> , 2016, 22, 10017-10027.	1.7	8
48	Conversion Chemistry of Nanoscopically Confined Manganese Silicate: Solid-State Route toward Porous Metal Oxide Catalyst-Support. <i>Chemistry of Materials</i> , 2018, 30, 8070-8078.	3.2	8
49	Nanosilica-Confined Synthesis of Orthogonally Active Catalytic Metal Nanocrystals in the Compartmentalized Carbon Framework. <i>Small</i> , 2019, 15, 1901280.	5.2	7
50	Compartmentalization: Nanosilica-Confined Synthesis of Orthogonally Active Catalytic Metal Nanocrystals in the Compartmentalized Carbon Framework ( <i>Small</i> 25/2019). <i>Small</i> , 2019, 15, 1970135.	5.2	0
51	Frontispiz: Highly Mesoporous Metal-Organic Frameworks as Synergistic Multimodal Catalytic Platforms for Divergent Cascade Reactions. <i>Angewandte Chemie</i> , 2020, 132, .	1.6	0
52	Frontispiece: Highly Mesoporous Metal-Organic Frameworks as Synergistic Multimodal Catalytic Platforms for Divergent Cascade Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, .	7.2	0