

# Subrata Kundu

## 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.

185 papers	8,578 citations	49 h-index	87 g-index
196 ext. papers	10,667 ext. citations	6 avg, IF	6.99 L-index

#	Paper	IF	Citations
185	Recent Trends and Perspectives in Electrochemical Water Splitting with an Emphasis on Sulfide, Selenide, and Phosphide Catalysts of Fe, Co, and Ni: A Review. <i>ACS Catalysis</i> , <b>2016</b> , 6, 8069-8097	13.1	1378
184	Precision and correctness in the evaluation of electrocatalytic water splitting: revisiting activity parameters with a critical assessment. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 744-771	35.4	628
183	General method of synthesis for metal nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2004</b> , 6, 411-414	2.3	263
182	Evolution of layered double hydroxides (LDH) as high performance water oxidation electrocatalysts: A review with insights on structure, activity and mechanism. <i>Materials Today Energy</i> , <b>2017</b> , 6, 1-26	7	194
181	Do the Evaluation Parameters Reflect Intrinsic Activity of Electrocatalysts in Electrochemical Water Splitting?. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1260-1264	20.1	178
180	Enhancing electrocatalytic total water splitting at few layer Pt-NiFe layered double hydroxide interfaces. <i>Nano Energy</i> , <b>2017</b> , 39, 30-43	17.1	177
179	Shape-Controlled Catalysis by Cetyltrimethylammonium Bromide Terminated Gold Nanospheres, Nanorods, and Nanoprisms. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5150-5156	3.8	147
178	Pt Nanoparticle Anchored Molecular Self-Assemblies of DNA: An Extremely Stable and Efficient HER Electrocatalyst with Ultralow Pt Content. <i>ACS Catalysis</i> , <b>2016</b> , 6, 4660-4672	13.1	140
177	The Fe Effect—A review unveiling the critical roles of Fe in enhancing OER activity of Ni and Co based catalysts. <i>Nano Energy</i> , <b>2021</b> , 80, 105514	17.1	138
176	Silver and Gold Nanocluster Catalyzed Reduction of Methylene Blue by Arsine in a Micellar Medium. <i>Langmuir</i> , <b>2002</b> , 18, 8756-8760	4	132
175	Photochemical deposition of SERS active silver nanoparticles on silica gel and their application as catalysts for the reduction of aromatic nitro compounds. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 272, 134-44	9.3	112
174	Self-assembled IrO <sub>2</sub> nanoparticles on a DNA scaffold with enhanced catalytic and oxygen evolution reaction (OER) activities. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24463-24478	13	107
173	UV Photoactivation for Size and Shape Controlled Synthesis and Coalescence of Gold Nanoparticles in Micelles. <i>Langmuir</i> , <b>2002</b> , 18, 7792-7797	4	107
172	A new route to obtain high-yield multiple-shaped gold nanoparticles in aqueous solution using microwave irradiation. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 6344-52	5.1	103
171	Microwave-Initiated Facile Formation of NiSe Nanoassemblies for Enhanced and Stable Water Splitting in Neutral and Alkaline Media. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 8714-8728	9.5	100
170	Removal of arsenic using hardened paste of Portland cement: batch adsorption and column study. <i>Water Research</i> , <b>2004</b> , 38, 3780-90	12.5	100
169	A new route for the formation of Au nanowires and application of shape-selective Au nanoparticles in SERS studies. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 831-842	7.1	99

168	One step synthesis of Ni/Ni(OH) <sub>2</sub> nano sheets (NSs) and their application in asymmetric supercapacitors. <i>RSC Advances</i> , <b>2017</b> , 7, 5898-5911	3.7	96
167	Self-Assembled NiWO <sub>4</sub> Nanoparticles into Chain-like Aggregates on DNA Scaffold with Pronounced Catalytic and Supercapacitor Activities. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 673-686	3.5	96
166	Size-Controlled Synthesis and Self-Assembly of Silver Nanoparticles within a Minute Using Microwave Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 134-141	3.8	96
165	Progress in nickel chalcogenide electrocatalyzed hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4174-4192	13	95
164	Studies on the Evolution of Silver Nanoparticles in Micelle by UV-Photoactivation. <i>Journal of Nanoparticle Research</i> , <b>2003</b> , 5, 577-587	2.3	89
163	Bio-molecule assisted aggregation of ZnWO <sub>4</sub> nanoparticles (NPs) into chain-like assemblies: material for high performance supercapacitor and as catalyst for benzyl alcohol oxidation. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 3851-63	5.1	85
162	Unprotected and interconnected Ru nano-chain networks: advantages of unprotected surfaces in catalysis and electrocatalysis. <i>Chemical Science</i> , <b>2016</b> , 7, 3188-3205	9.4	85
161	DNA-mediated wirelike clusters of silver nanoparticles: an ultrasensitive SERS substrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 7798-807	9.5	85
160	Size-Selective Synthesis and Catalytic Application of Polyelectrolyte Encapsulated Gold Nanoparticles Using Microwave Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5157-5163	3.8	84
159	Core-Oxidized Amorphous Cobalt Phosphide Nanostructures: An Advanced and Highly Efficient Oxygen Evolution Catalyst. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 1742-1756	5.1	83
158	Petal-like hierarchical array of ultrathin Ni(OH) <sub>2</sub> nanosheets decorated with Ni(OH) <sub>2</sub> nanoburles: a highly efficient OER electrocatalyst. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 882-893	5.5	82
157	Formation of self-assembled Ag nanoparticles on DNA chains with enhanced catalytic activity. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 14107-19	3.6	74
156	Self-Assembled Molecular Hybrids of CoS-DNA for Enhanced Water Oxidation with Low Cobalt Content. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 6734-6745	5.1	73
155	Microwave synthesis of electrically conductive gold nanowires on DNA scaffolds. <i>Langmuir</i> , <b>2008</b> , 24, 9668-74	4	71
154	Synthesis and Characterization of Superparamagnetic NiBt Nanoalloy. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3710-3715	9.6	71
153	Is Gold Really Softer than Silver? HSAB Principle Revisited. <i>Journal of Nanoparticle Research</i> , <b>2006</b> , 8, 111-116	2.3	68
152	Photoinduced formation of electrically conductive thin palladium nanowires on DNA scaffolds. <i>Langmuir</i> , <b>2009</b> , 25, 10146-52	4	65
151	A vast exploration of improvising synthetic strategies for enhancing the OER kinetics of LDH structures: a review. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 1314-1352	13	65

150	Self-assembled wire-like and honeycomb-like osmium nanoclusters (NCs) in DNA with pronounced catalytic and SERS activities. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 3782	7.1	64
149	Formation of shape-selective magnetic cobalt oxide nanowires: environmental application in catalysis studies. <i>CrystEngComm</i> , <b>2013</b> , 15, 482-497	3.3	64
148	The self-assembling of DNA-templated Au nanoparticles into nanowires and their enhanced SERS and catalytic applications. <i>RSC Advances</i> , <b>2013</b> , 3, 16486	3.7	61
147	Shape-selective formation and characterization of catalytically active iridium nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 354, 597-606	9.3	61
146	In situ formation of curcumin stabilized shape-selective Ag nanostructures in aqueous solution and their pronounced SERS activity. <i>RSC Advances</i> , <b>2013</b> , 3, 25278	3.7	60
145	Enhanced catalytic and supercapacitor activities of DNA encapsulated MnO <sub>2</sub> nanomaterials. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 21846-59	3.6	58
144	Synthesis of Aucore@Agshell type bimetallic nanoparticles for single molecule detection in solution by SERS method. <i>Journal of Nanoparticle Research</i> , <b>2004</b> , 6, 53-61	2.3	58
143	Photolytic metallization of au nanoclusters and electrically conducting micrometer long nanostructures on a DNA scaffold. <i>Langmuir</i> , <b>2008</b> , 24, 551-5	4	57
142	Anisotropic growth of gold clusters to gold nanocubes under UV irradiation. <i>Nanotechnology</i> , <b>2007</b> , 18, 075712	3.4	56
141	NiTe Nanowire Outperforms Pt/C in High-Rate Hydrogen Evolution at Extreme pH Conditions. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 3082-3096	5.1	55
140	Photochemical Generation of Catalytically Active Shape Selective Rhodium Nanocubes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 18570-18577	3.8	55
139	Enhanced catalytic and SERS activities of CTAB stabilized interconnected osmium nanoclusters. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 22723-34	3.6	53
138	High-Performance Oxygen Evolution Anode from Stainless Steel via Controlled Surface Oxidation and Cr Removal. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 10072-10083	8.3	51
137	Microwave Synthesis of SnWO <sub>4</sub> Nanoassemblies on DNA Scaffold: A Novel Material for High Performance Supercapacitor and as Catalyst for Butanol Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 2321-2336	8.3	49
136	Synthesis and application of DNA-CdS nanowires within a minute using microwave irradiation. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 121-7	5.1	49
135	DNA mediated wire-like clusters of self-assembled TiO <sub>2</sub> nanomaterials: supercapacitor and dye sensitized solar cell applications. <i>Nanoscale</i> , <b>2014</b> , 6, 8010-23	7.7	48
134	Polyelectrolyte mediated scalable synthesis of highly stable silver nanocubes in less than a minute using microwave irradiation. <i>Nanotechnology</i> , <b>2008</b> , 19, 065604	3.4	48
133	Recovered spinel MnCoO from spent lithium-ion batteries for enhanced electrocatalytic oxygen evolution in alkaline medium. <i>Dalton Transactions</i> , <b>2017</b> , 46, 14382-14392	4.3	47

132	Magnetic CoPt nanoparticle-decorated ultrathin Co(OH) <sub>2</sub> nanosheets: an efficient bi-functional water splitting catalyst. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2486-2497	5.5	46
131	Environmental benign synthesis of reduced graphene oxide (rGO) from spent lithium-ion batteries (LIBs) graphite and its application in supercapacitor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 543, 98-108	5.1	45
130	A new route to obtain shape-controlled gold nanoparticles from Au(III)-beta-diketonates. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 5489-91	5.1	45
129	Investigation on nanostructured Cu-based electrocatalysts for improvising water splitting: a review. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 234-272	6.8	45
128	Stainless Steel Scrubber: A Cost Efficient Catalytic Electrode for Full Water Splitting in Alkaline Medium. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2498-2509	8.3	44
127	Spectrophotometric determination of arsenic via arsine generation and in-situ colour bleaching of methylene blue (MB) in micellar medium. <i>Talanta</i> , <b>2002</b> , 58, 935-42	6.2	44
126	Shape-selective formation of MnWO <sub>4</sub> nanomaterials on a DNA scaffold: magnetic, catalytic and supercapacitor studies. <i>RSC Advances</i> , <b>2014</b> , 4, 38169	3.7	42
125	Nanosheets of Nickel Iron Hydroxy Carbonate Hydrate with Pronounced OER Activity under Alkaline and Near-Neutral Conditions. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 1895-1904	5.1	40
124	Reduction of methylene blue (MB) by ammonia in micelles catalyzed by metal nanoparticles. <i>New Journal of Chemistry</i> , <b>2003</b> , 27, 656-662	3.6	39
123	Osmium Organosol on DNA: Application in Catalytic Hydrogenation Reaction and in SERS Studies. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 19228-19238	3.9	37
122	Potentiostatic phase formation of FeCoOOH on pulsed laser deposited biphasic cobalt oxide thin film for enhanced oxygen evolution. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23053-23066	13	36
121	Photoinduced formation of shape-selective Pt nanoparticles. <i>Langmuir</i> , <b>2010</b> , 26, 6720-7	4	36
120	Fabrication of catalytically active nanocrystalline samarium (Sm)-doped cerium oxide (CeO <sub>2</sub> ) thin films using electron beam evaporation. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	35
119	DNA-Mediated Fast Synthesis of Shape-Selective ZnO Nanostructures and Their Potential Applications in Catalysis and Dye-Sensitized Solar Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 13667-13679	3.9	34
118	Electrospun cobalt-ZIF micro-fibers for efficient water oxidation under unique pH conditions. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 1847-1856	5.5	32
117	Shrinking the Hydrogen Overpotential of Cu by 1 V and Imparting Ultralow Charge Transfer Resistance for Enhanced H <sub>2</sub> Evolution. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5686-5697	13.1	31
116	Respective influence of stoichiometry and NiOOH formation in hydrogen and oxygen evolution reactions of nickel selenides. <i>Applied Surface Science</i> , <b>2019</b> , 487, 1152-1158	6.7	30
115	Formation and Catalytic Application of Electrically Conductive Pt Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7700-7709	3.8	30

114	Enabling and Inducing Oxygen Vacancies in Cobalt Iron Layer Double Hydroxide via Selenization as Precatalysts for Electrocatalytic Hydrogen and Oxygen Evolution Reactions. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 2023-2036	5.1	29
113	In Situ Mn-Doping-Promoted Conversion of Co(OH) <sub>2</sub> to Co <sub>3</sub> O <sub>4</sub> as an Active Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9690-9698	8.3	28
112	A facile route for the formation of shape-selective ZnO nanoarchitectures with superior photo-catalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 446, 199-212	5.1	28
111	Ultra-small rhenium nanoparticles immobilized on DNA scaffolds: An excellent material for surface enhanced Raman scattering and catalysis studies. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 483, 360-373	9.3	27
110	A highly stable rhenium organosol on a DNA scaffold for catalytic and SERS applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 6309-6320	7.1	27
109	Spinel Cobalt Titanium Binary Oxide as an All-Non-Precious Water Oxidation Electrocatalyst in Acid. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 8570-8576	5.1	26
108	DNA-encapsulated chain and wire-like MnO <sub>2</sub> organosol for oxidative polymerization of pyrrole to polypyrrole. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 5474-84	3.6	26
107	In Situ Modified Nitrogen-Enriched ZIF-67 Incorporated ZIF-7 Nanofiber: An Unusual Electrocatalyst for Water Oxidation. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 13826-13835	5.1	25
106	Morphology dependent catalysis and surface enhanced Raman scattering (SERS) studies using Pd nanostructures in DNA, CTAB and PVA scaffolds. <i>Dalton Transactions</i> , <b>2017</b> , 46, 9678-9691	4.3	25
105	Photochemical formation of electrically conductive silver nanowires on polymer scaffolds. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 344, 334-42	9.3	25
104	DNA Aided Formation of Aggregated Nb <sub>2</sub> O <sub>5</sub> Nanoassemblies as Anode Material for Dye Sensitized Solar Cell (DSSC) and Supercapacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 3174-3188	8.3	25
103	Synthesis and characterization of DNA fenced, self-assembled SnO <sub>2</sub> nano-assemblies for supercapacitor applications. <i>Dalton Transactions</i> , <b>2016</b> , 45, 3506-21	4.3	24
102	Supercapacitor and dye-sensitized solar cell (DSSC) applications of shape-selective TiO <sub>2</sub> nanostructures. <i>RSC Advances</i> , <b>2014</b> , 4, 35659	3.7	24
101	Microwave assisted swift synthesis of ZnWO <sub>4</sub> nanomaterials: material for enhanced photo-catalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2017</b> , 346, 249-264	4.7	23
100	Shape-selective catalysis and surface enhanced Raman scattering studies using Ag nanocubes, nanospheres and aggregated anisotropic nanostructures. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 498, 248-262	9.3	23
99	NiWO <sub>4</sub> nanoparticle decorated lignin as electrodes for asymmetric flexible supercapacitors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3418-3430	7.1	23
98	Transition-Metal-Based Zeolite Imidazolate Framework Nanofibers via an Electrospinning Approach: A Review. <i>ACS Omega</i> , <b>2020</b> , 5, 57-67	3.9	23
97	Membrane free water electrolysis under 1.23 V with Ni <sub>3</sub> Se <sub>4</sub> /Ni anode in alkali and Pt cathode in acid. <i>Applied Surface Science</i> , <b>2019</b> , 478, 784-792	6.7	22



96	Electrochemically chopped WS <sub>2</sub> quantum dots as an efficient and stable electrocatalyst for water reduction. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 223-231	5.5	22
95	Advanced CuSn and Selenized CuSn@Cu Foam as Electrocatalysts for Water Oxidation under Alkaline and Near-Neutral Conditions. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 9490-9499	5.1	22
94	Polymeric Nanofibers Containing CoNi-Based Zeolitic Imidazolate Framework Nanoparticles for Electrocatalytic Water Oxidation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 4274-4282	5.6	21
93	Shape-selective synthesis of non-micellar cobalt oxide (CoO) nanomaterials by microwave irradiations. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	21
92	Photochemical synthesis of shape-selective palladium nanocubes in aqueous solution. <i>Journal of Nanoparticle Research</i> , <b>2010</b> , 12, 2799-2811	2.3	21
91	Dye micelle aggregate formation for effective photobleaching. <i>Dyes and Pigments</i> , <b>2006</b> , 69, 177-184	4.6	20
90	Iron hydroxyphosphate and Sn-incorporated iron hydroxyphosphate: efficient and stable electrocatalysts for oxygen evolution reaction. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 5092-5104	5.5	19
89	Shape-selective synthesis of Sn(MoO <sub>4</sub> ) <sub>2</sub> nanomaterials for catalysis and supercapacitor applications. <i>Dalton Transactions</i> , <b>2016</b> , 45, 8897-915	4.3	19
88	Annexation of Nickel Vanadate (Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> ) Nanocubes on Nanofibers: An Excellent Electrocatalyst for Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4572-4579	8.3	18
87	Boron-doped graphene quantum dots: an efficient photoanode for a dye sensitized solar cell. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 14313-14319	3.6	18
86	Self-assembly of gold nanoparticles on poly(allylamine hydrochloride) nanofiber: a new route to fabricate "necklace" as single electron devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 9949-56	9.5	18
85	Silver and gold nanocluster catalyzed reduction of methylene blue by arsine in micellar medium. <i>Bulletin of Materials Science</i> , <b>2002</b> , 25, 577-579	1.7	18
84	Micelle bound redox dye marker for nanogram level arsenic detection promoted by nanoparticles. <i>New Journal of Chemistry</i> , <b>2002</b> , 26, 1081-1084	3.6	18
83	Cobalt tungsten oxide hydroxide hydrate (CTOHH) on DNA scaffold: an excellent bi-functional catalyst for oxygen evolution reaction (OER) and aromatic alcohol oxidation. <i>Dalton Transactions</i> , <b>2019</b> , 48, 17117-17131	4.3	18
82	Low temperature formation of rectangular PbTe nanocrystals and their thermoelectric properties. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 265-277	3.6	17
81	Electrospun Fe-Incorporated ZIF-67 Nanofibers for Effective Electrocatalytic Water Splitting. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 4034-4046	5.1	17
80	Low temperature, shape-selective formation of Sb <sub>2</sub> Te <sub>3</sub> nanomaterials and their thermoelectric applications. <i>RSC Advances</i> , <b>2015</b> , 5, 89621-89634	3.7	15
79	Detection of Lignin Motifs with RuO <sub>2</sub> -DNA as an Active Catalyst via Surface-Enhanced Raman Scattering Studies. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 18463-18475	8.3	15

78	Enhanced Water Oxidation with Improved Stability by Aggregated RuO <sub>2</sub> -NaPO <sub>3</sub> Core-shell Nanostructures in Acidic Medium. <i>Current Nanoscience</i> , <b>2017</b> , 13,	1.4	15
77	Low-temperature synthesis of SrTiO <sub>3</sub> nanoassemblies on DNA scaffolds and their applications in dye-sensitized solar cells and supercapacitors. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 3473-3486	3.6	14
76	Evaluating DNA Derived and Hydrothermally Aided Cobalt Selenide Catalysts for Electrocatalytic Water Oxidation. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 6877-6884	5.1	14
75	Developments in DNA metallization strategies for water splitting electrocatalysis: A review. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 282, 102205	14.3	14
74	Shape-controlled Synthesis of Gold Nanoparticles from Gold(III)-chelates of $\beta$ -diketones. <i>Journal of Nanoparticle Research</i> , <b>2005</b> , 7, 641-650	2.3	14
73	V Incorporated [Co(OH)]: A Robust and Efficient Electrocatalyst for Water Oxidation. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 730-740	5.1	14
72	Enhanced catalytic and SERS activities of size-selective Rh NPs on DNA scaffolds. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2577-2590	7.1	13
71	Direct Evidence of an Efficient Plasmon-Induced Hot-Electron Transfer at an in Situ Grown Ag/TiO <sub>2</sub> Interface for Highly Enhanced Solar H <sub>2</sub> Generation. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1821-1830	6.1	13
70	Nickelo-Sulfurization of DNA Leads to an Efficient Alkaline Water Oxidation Electrocatalyst with Low Ni Quantity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6802-6810	8.3	13
69	Polymer Encapsulated Self-Assemblies of Ultrasmall Rhenium Nanoparticles: Catalysis and SERS Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 10186-10198	8.3	13
68	Electrocatalytic Oxygen Evolution in Acidic and Alkaline Media by a Multistimuli-Responsive Cobalt(II) Organogel. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16094-16102	8.3	12
67	Photo-induced formation of semi-conducting Au/Ag aggregated branched nanoalloys on DNA template. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 377, 87-96	5.1	12
66	Tuning Cu Overvoltage for a Copper-Telluride System in Electrocatalytic Water Reduction and Feasible Feedstock Conversion: A New Approach. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 11129-11141	5.1	12
65	Enhancement of HER kinetics with RhNiFe for high-rate water electrolysis. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 3681-3693	5.5	12
64	Oxygen vacancy enriched NiMoO <sub>4</sub> nanorods via microwave heating: a promising highly stable electrocatalyst for total water splitting. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11691-11704	13	12
63	Formation of electrically conductive palladium nanowires on polymer scaffolds by photochemical approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 360, 129-136	5.1	11
62	Electrospun Cobalt-Incorporated MOF-5 Microfibers as a Promising Electrocatalyst for OER in Alkaline Media. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 9899-9911	5.1	11
61	Synthesis of ultra-small Rh nanoparticles congregated over DNA for catalysis and SERS applications. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 173, 249-257	6	11



60	Highly Stable Trimetallic (Co, Ni, and Fe) Zeolite Imidazolate Framework Microfibers: An Excellent Electrocatalyst for Water Oxidation. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 1800-1809	3.5	11
59	Current perspectives on 3D ZIFs incorporated with 1D carbon matrices as fibers via electrospinning processes towards electrocatalytic water splitting: a review. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11961-12002	13	11
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