

Subrata Kundu

List of Publications by Year in Descending Order

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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	Worrisome Exaggeration of Activity of Electrocatalysts Destined for Steady-State Water Electrolysis by Polarization Curves from Transient Techniques. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 014508	3.9	6
184	Mixed- ligand-devised anionic MOF with divergent open Co(II)-nodes as chemo-resistant, bi-functional material for electrochemical water oxidation and mild-condition tandem CO ₂ fixation. <i>Chemical Engineering Journal</i> , 2022 , 429, 132301	14.7	9
183	Synthesis, fabrication and processing of sulfide, selenide-based materials for water splitting 2022 , 407-427		
182	Clean energy for sustainable development: Importance of new materials 2022 , 1-15		
181	Sulfide and selenide-based electrocatalyst for oxygen evolution reaction (OER) 2022 , 463-494		
180	Role of hydrogen generation technologies for renewable hydrogen production 2022 , 377-407		
179	Enhancement of the OER Kinetics of the Less-Explored β -MnO Nickel Doping Approaches in Alkaline Medium. <i>Inorganic Chemistry</i> , 2021 ,	5.1	5
178	Metallic Gold-Incorporated Ni(OH) for Enhanced Water Oxidation in an Alkaline Medium: A Simple Wet-Chemical Approach. <i>Inorganic Chemistry</i> , 2021 , 60, 15818-15829	5.1	1
177	Size- and Shape-Selective Synthesis of DNA-Based Nanomaterials and Their Application in Surface-Enhanced Raman Scattering 2021 , 53-91		
176	Electrospun Fe-Incorporated ZIF-67 Nanofibers for Effective Electrocatalytic Water Splitting. <i>Inorganic Chemistry</i> , 2021 , 60, 4034-4046	5.1	17
175	Electrospinning as a tool in fabricating hydrated porous cobalt phosphate fibrous network as high rate OER electrocatalysts in alkaline and neutral media. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 10366-10376	6.7	10
174	Biomass-Derived Electrodes for Flexible Supercapacitors 2021 , 211-231		1
173	Prospects in interfaces of biomolecule DNA and nanomaterials as an effective way for improvising surface enhanced Raman scattering: A review. <i>Advances in Colloid and Interface Science</i> , 2021 , 291, 102399	14.3	3
172	Electrospun Cobalt-Incorporated MOF-5 Microfibers as a Promising Electrocatalyst for OER in Alkaline Media. <i>Inorganic Chemistry</i> , 2021 , 60, 9899-9911	5.1	11
171	In Situ Decorated Ni Metallic Layer with CoS-Layered Thin Films via a Layer-by-Layer Strategy Using Pulsed Laser Deposition for Enhanced Electrocatalytic OER. <i>Inorganic Chemistry</i> , 2021 , 60, 8946-8957	5.1	4
170	Temperature-Controlled Structural Variations of Meticulous Fibrous Networks of NiFe-Polymeric Zeolite Imidazolate Frameworks for Enhanced Performance in Electrocatalytic Water-Splitting Reactions. <i>Inorganic Chemistry</i> , 2021 , 60, 12467-12480	5.1	2
169	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> , 2021 , 80, 105514	17.1	138

168	A vast exploration of improvising synthetic strategies for enhancing the OER kinetics of LDH structures: a review. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1314-1352	13	65
167	Green and sustainable route for oxidative depolymerization of lignin: New platform for fine chemicals and fuels. <i>Biotechnology Progress</i> , 2021 , 37, e3111	2.8	4
166	Bi-metallic zeolite imidazole framework nanofibers for the selective determination of Cd ions. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 5656-5663	7.3	1
165	DNA-based low resistance palladium nano-spheres for effective hydrogen evolution reaction. <i>Catalysis Science and Technology</i> , 2021 , 11, 5868-5880	5.5	0
164	Cobalt-iron zeolitic imidazolate frameworks (ZIFs) as microfibers for the effective detection of hydroquinone. <i>Dalton Transactions</i> , 2021 , 50, 10540-10548	4.3	1
163	Biosolvents as green solvents in the pharmaceutical industry 2021 , 105-149		1
162	Commercial green solvents for environmental remediation 2021 , 89-119		
161	Shape-selective rhodium nano-huddles on DNA for high efficiency hydrogen evolution reaction in acidic medium. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1709-1720	7.1	6
160	Investigation on nanostructured Cu-based electrocatalysts for improvising water splitting: a review. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 234-272	6.8	45
159	Surface Decoration of DNA-Aided Amorphous Cobalt Hydroxide Ag Ions as Binder-Free Electrodes toward Electrochemical Oxygen Evolution Reaction. <i>Inorganic Chemistry</i> , 2021 , 60, 2680-2693	5.1	3
158	Highly Stable Trimetallic (Co, Ni, and Fe) Zeolite Imidazolate Framework Microfibers: An Excellent Electrocatalyst for Water Oxidation. <i>Crystal Growth and Design</i> , 2021 , 21, 1800-1809	3.5	11
157	Oxygen vacancy enriched NiMoO ₄ nanorods via microwave heating: a promising highly stable electrocatalyst for total water splitting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11691-11704	13	12
156	Advancing the extended roles of 3D transition metal based heterostructures with copious active sites for electrocatalytic water splitting. <i>Dalton Transactions</i> , 2021 , 50, 13176-13200	4.3	2
155	Fabrication of highly stable platinum organosols over DNA-scaffolds for enriched catalytic and SERS applications. <i>Dalton Transactions</i> , 2021 , 50, 7198-7211	4.3	1
154	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> , 2021 , 9, 11961-12002	13	11
153	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> , 2021 , 60, 2023-2036	5.1	29
152	Revealing the pH-Universal Electrocatalytic Activity of Co-Doped RuO toward the Water Oxidation Reaction.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	5
151	Crystalline Free-Standing Two-Dimensional Zwitterionic Organic Nanosheets for Efficient Conduction of Lithium Ions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 58122-58131	9.5	3

150 Transition metal-based nitrides for energy applications **2020**, 493-515

149 Polymeric Nanofibers Containing CoNi-Based Zeolitic Imidazolate Framework Nanoparticles for Electrocatalytic Water Oxidation. *ACS Applied Nano Materials*, **2020**, 3, 4274-4282 5.6 21

148 Employing DNA scaffold with rhenium electrocatalyst for enhanced HER activities. *Applied Surface Science*, **2020**, 528, 147049 6.7 5

147 Developments in DNA metallization strategies for water splitting electrocatalysis: A review. *Advances in Colloid and Interface Science*, **2020**, 282, 102205 14.3 14

146 Enhancing Hydrogen Evolution Reaction Activities of 2H-Phase VS Layers with Palladium Nanoparticles. *Inorganic Chemistry*, **2020**, 59, 10197-10207 5.1 9

145 Annexation of Nickel Vanadate (Ni₃V₂O₈) Nanocubes on Nanofibers: An Excellent Electrocatalyst for Water Oxidation. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 4572-4579 8.3 18

144 Direct Evidence of an Efficient Plasmon-Induced Hot-Electron Transfer at an in Situ Grown Ag/TiO₂ Interface for Highly Enhanced Solar H₂ Generation. *ACS Applied Energy Materials*, **2020**, 3, 1821-1830 6.1 13

143 Microfibers of Embellished Cobalt-Zeolite Imidazole Framework for Vitamin B₂ Detection. *Journal of the Electrochemical Society*, **2020**, 167, 137511 3.9 8

142 Self-assembling of metallic Rh over DNA as nano-chains: An effective organosol for catalysis and SERS studies. *Applied Surface Science*, **2020**, 527, 146777 6.7 8

141 Progress in nickel chalcogenide electrocatalyzed hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 4174-4192 13 95

140 NiWO₄ nanoparticle decorated lignin as electrodes for asymmetric flexible supercapacitors. *Journal of Materials Chemistry C*, **2020**, 8, 3418-3430 7.1 23

139 Transition-Metal-Based Zeolite Imidazolate Framework Nanofibers via an Electrospinning Approach: A Review. *ACS Omega*, **2020**, 5, 57-67 3.9 23

138 V Incorporated ECo(OH): A Robust and Efficient Electrocatalyst for Water Oxidation. *Inorganic Chemistry*, **2020**, 59, 730-740 5.1 14

137 A Simple Route for the Synthesis of Cobalt Phosphate Nanoparticles for Electrocatalytic Water Oxidation in Alkaline Medium. *Energy & Fuels*, **2020**, 34, 12891-12899 4.1 10

136 Tuning Cu Overvoltage for a Copper-Telluride System in Electrocatalytic Water Reduction and Feasible Feedstock Conversion: A New Approach. *Inorganic Chemistry*, **2020**, 59, 11129-11141 5.1 12

135 Cubic Nanostructures of Nickel-Cobalt Carbonate Hydroxide Hydrate as a High-Performance Oxygen Evolution Reaction Electrocatalyst in Alkaline and Near-Neutral Media. *Inorganic Chemistry*, **2020**, 59, 16690-16702 5.1 8

134 Intervening Bismuth Tungstate with DNA Chain Assemblies: A Perception toward Feedstock Conversion via Photoelectrocatalytic Water Splitting. *Inorganic Chemistry*, **2020**, 59, 14501-14512 5.1 3

133 Bimetallic tungstate nanoparticle-decorated-lignin electrodes for flexible supercapacitors. *Materials Advances*, **2020**, 1, 2124-2135 3.3 9

132	Enhancement of HER kinetics with RhNiFe for high-rate water electrolysis. <i>Catalysis Science and Technology</i> , 2020 , 10, 3681-3693	5.5	12
131	Electrocatalytic Oxygen Evolution in Acidic and Alkaline Media by a Multistimuli-Responsive Cobalt(II) Organogel. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16094-16102	8.3	12
130	Membrane free water electrolysis under 1.23 V with Ni ₃ Se ₄ /Ni anode in alkali and Pt cathode in acid. <i>Applied Surface Science</i> , 2019 , 478, 784-792	6.7	22
129	Electrochemically chopped WS ₂ quantum dots as an efficient and stable electrocatalyst for water reduction. <i>Catalysis Science and Technology</i> , 2019 , 9, 223-231	5.5	22
128	Advanced CuSn and Selenized CuSn@Cu Foam as Electrocatalysts for Water Oxidation under Alkaline and Near-Neutral Conditions. <i>Inorganic Chemistry</i> , 2019 , 58, 9490-9499	5.1	22
127	Spinel Cobalt Titanium Binary Oxide as an All-Non-Precious Water Oxidation Electrocatalyst in Acid. <i>Inorganic Chemistry</i> , 2019 , 58, 8570-8576	5.1	26
126	Evaluating DNA Derived and Hydrothermally Aided Cobalt Selenide Catalysts for Electrocatalytic Water Oxidation. <i>Inorganic Chemistry</i> , 2019 , 58, 6877-6884	5.1	14
125	Do the Evaluation Parameters Reflect Intrinsic Activity of Electrocatalysts in Electrochemical Water Splitting?. <i>ACS Energy Letters</i> , 2019 , 4, 1260-1264	20.1	178
124	Respective influence of stoichiometry and NiOOH formation in hydrogen and oxygen evolution reactions of nickel selenides. <i>Applied Surface Science</i> , 2019 , 487, 1152-1158	6.7	30
123	In Situ Mn-Doping-Promoted Conversion of Co(OH) ₂ to Co ₃ O ₄ as an Active Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9690-9698	8.3	28
122	Electrospun cobalt-ZIF micro-fibers for efficient water oxidation under unique pH conditions. <i>Catalysis Science and Technology</i> , 2019 , 9, 1847-1856	5.5	32
121	Provoking electrocatalytic activity with bio-molecules at inactive gas diffusion layers. <i>Materials Today Energy</i> , 2019 , 12, 318-326	7	4
120	Boron-doped graphene quantum dots: an efficient photoanode for a dye sensitized solar cell. <i>New Journal of Chemistry</i> , 2019 , 43, 14313-14319	3.6	18
119	Detection of Lignin Motifs with RuO ₂ -DNA as an Active Catalyst via Surface-Enhanced Raman Scattering Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18463-18475	8.3	15
118	In Situ Modified Nitrogen-Enriched ZIF-67 Incorporated ZIF-7 Nanofiber: An Unusual Electrocatalyst for Water Oxidation. <i>Inorganic Chemistry</i> , 2019 , 58, 13826-13835	5.1	25
117	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> , 2019 , 48, 17117-17131	4.3	18
116	Nanosheets of Nickel Iron Hydroxy Carbonate Hydrate with Pronounced OER Activity under Alkaline and Near-Neutral Conditions. <i>Inorganic Chemistry</i> , 2019 , 58, 1895-1904	5.1	40
115	Synthesis of ultra-small Rh nanoparticles congregated over DNA for catalysis and SERS applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 173, 249-257	6	11

114	Precision and correctness in the evaluation of electrocatalytic water splitting: revisiting activity parameters with a critical assessment. <i>Energy and Environmental Science</i> , 2018 , 11, 744-771	35.4	628
113	NiTe Nanowire Outperforms Pt/C in High-Rate Hydrogen Evolution at Extreme pH Conditions. <i>Inorganic Chemistry</i> , 2018 , 57, 3082-3096	5.1	55
112	Microwave-Assisted Template-Free Synthesis of Ni ₃ (BO ₃) ₂ (NOB) Hierarchical Nanoflowers for Electrocatalytic Oxygen Evolution. <i>Energy & Fuels</i> , 2018 , 32, 6224-6233	4.1	8
111	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> , 2018 , 543, 98-108	5.1	45
110	Stainless Steel Scrubber: A Cost Efficient Catalytic Electrode for Full Water Splitting in Alkaline Medium. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2498-2509	8.3	44
109	Nickelo-Sulfurization of DNA Leads to an Efficient Alkaline Water Oxidation Electrocatalyst with Low Ni Quantity. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6802-6810	8.3	13
108	Shrinking the Hydrogen Overpotential of Cu by 1 V and Imparting Ultralow Charge Transfer Resistance for Enhanced H ₂ Evolution. <i>ACS Catalysis</i> , 2018 , 8, 5686-5697	13.1	31
107	Pt nanoparticle tethered DNA assemblies for enhanced catalysis and SERS applications. <i>New Journal of Chemistry</i> , 2018 , 42, 15784-15792	3.6	10
106	Investigation of various synthetic protocols for self-assembled nanomaterials and their role in catalysis: progress and perspectives. <i>Materials Today Chemistry</i> , 2018 , 10, 31-78	6.2	5
105	NiFe-Layered Double Hydroxide Sheets as an Efficient Electrochemical Biosensing Platform. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B536-B542	3.9	9
104	One step synthesis of Ni/Ni(OH) ₂ nano sheets (NSs) and their application in asymmetric supercapacitors. <i>RSC Advances</i> , 2017 , 7, 5898-5911	3.7	96
103	Petal-like hierarchical array of ultrathin Ni(OH) ₂ nanosheets decorated with Ni(OH) ₂ nanoburles: a highly efficient OER electrocatalyst. <i>Catalysis Science and Technology</i> , 2017 , 7, 882-893	5.5	82
102	Core-Oxidized Amorphous Cobalt Phosphide Nanostructures: An Advanced and Highly Efficient Oxygen Evolution Catalyst. <i>Inorganic Chemistry</i> , 2017 , 56, 1742-1756	5.1	83
101	Enhanced catalytic and SERS activities of size-selective Rh NPs on DNA scaffolds. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2577-2590	7.1	13
100	Microwave-Initiated Facile Formation of NiSe Nanoassemblies for Enhanced and Stable Water Splitting in Neutral and Alkaline Media. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8714-8728	9.5	100
99	Self-Assembled Molecular Hybrids of CoS-DNA for Enhanced Water Oxidation with Low Cobalt Content. <i>Inorganic Chemistry</i> , 2017 , 56, 6734-6745	5.1	73
98	Magnetic CoPt nanoparticle-decorated ultrathin Co(OH) ₂ nanosheets: an efficient bi-functional water splitting catalyst. <i>Catalysis Science and Technology</i> , 2017 , 7, 2486-2497	5.5	46
97	Enhancing electrocatalytic total water splitting at few layer Pt-NiFe layered double hydroxide interfaces. <i>Nano Energy</i> , 2017 , 39, 30-43	17.1	177

96	Microwave assisted swift synthesis of ZnWO ₄ nanomaterials: material for enhanced photo-catalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 346, 249-264	4.7	23
95	Low-temperature synthesis of SrTiO ₃ nanoassemblies on DNA scaffolds and their applications in dye-sensitized solar cells and supercapacitors. <i>New Journal of Chemistry</i> , 2017 , 41, 3473-3486	3.6	14
94	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> , 2017 , 498, 248-262	9.3	23
93	Prompt synthesis of iridium organosol on DNA for catalysis and SERS applications. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11947-11957	7.1	8
92	Iron hydroxyphosphate and Sn-incorporated iron hydroxyphosphate: efficient and stable electrocatalysts for oxygen evolution reaction. <i>Catalysis Science and Technology</i> , 2017 , 7, 5092-5104	5.5	19
91	Recovered spinel MnCoO from spent lithium-ion batteries for enhanced electrocatalytic oxygen evolution in alkaline medium. <i>Dalton Transactions</i> , 2017 , 46, 14382-14392	4.3	47
90	Potentiostatic phase formation of ECoOOH on pulsed laser deposited biphasic cobalt oxide thin film for enhanced oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23053-23066	13	36
89	High-Performance Oxygen Evolution Anode from Stainless Steel via Controlled Surface Oxidation and Cr Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10072-10083	8.3	51
88	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> , 2017 , 6, 1-26	7	194
87	Polymer Encapsulated Self-Assemblies of Ultrasmall Rhenium Nanoparticles: Catalysis and SERS Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10186-10198	8.3	13
86	Morphology dependent catalysis and surface enhanced Raman scattering (SERS) studies using Pd nanostructures in DNA, CTAB and PVA scaffolds. <i>Dalton Transactions</i> , 2017 , 46, 9678-9691	4.3	25
85	Enhanced Water Oxidation with Improved Stability by Aggregated RuO ₂ -NaPO ₃ Core-shell Nanostructures in Acidic Medium. <i>Current Nanoscience</i> , 2017 , 13,	1.4	15
84	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> , 2016 , 483, 360-373	9.3	27
83	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> , 2016 , 6, 8069-8097	13.1	1378
82	Pt Nanoparticle Anchored Molecular Self-Assemblies of DNA: An Extremely Stable and Efficient HER Electrocatalyst with Ultralow Pt Content. <i>ACS Catalysis</i> , 2016 , 6, 4660-4672	13.1	140
81	Unprotected and interconnected Ru nano-chain networks: advantages of unprotected surfaces in catalysis and electrocatalysis. <i>Chemical Science</i> , 2016 , 7, 3188-3205	9.4	85
80	Synthesis and characterization of DNA fenced, self-assembled SnO ₂ nano-assemblies for supercapacitor applications. <i>Dalton Transactions</i> , 2016 , 45, 3506-21	4.3	24
79	Low temperature formation of rectangular PbTe nanocrystals and their thermoelectric properties. <i>New Journal of Chemistry</i> , 2016 , 40, 265-277	3.6	17

78	A highly stable rhenium organosol on a DNA scaffold for catalytic and SERS applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6309-6320	7.1	27
77	DNA Aided Formation of Aggregated Nb ₂ O ₅ Nanoassemblies as Anode Material for Dye Sensitized Solar Cell (DSSC) and Supercapacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3174-3188	8.3	25
76	Microwave assisted fast formation of Sn(MoO ₄) ₂ nano-assemblies on DNA scaffold for application in lithium-ion batteries. <i>New Journal of Chemistry</i> , 2016 , 40, 6185-6199	3.6	10
75	Shape-selective synthesis of Sn(MoO ₄) ₂ nanomaterials for catalysis and supercapacitor applications. <i>Dalton Transactions</i> , 2016 , 45, 8897-915	4.3	19
74	π-stacking intercalation and reductant assisted stabilization of osmium organosol for catalysis and SERS applications. <i>RSC Advances</i> , 2015 , 5, 11850-11860	3.7	9
73	Bio-molecule assisted aggregation of ZnWO ₄ nanoparticles (NPs) into chain-like assemblies: material for high performance supercapacitor and as catalyst for benzyl alcohol oxidation. <i>Inorganic Chemistry</i> , 2015 , 54, 3851-63	5.1	85
72	Low temperature, shape-selective formation of Sb ₂ Te ₃ nanomaterials and their thermoelectric applications. <i>RSC Advances</i> , 2015 , 5, 89621-89634	3.7	15
71	Microwave Synthesis of SnWO ₄ Nanoassemblies on DNA Scaffold: A Novel Material for High Performance Supercapacitor and as Catalyst for Butanol Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2321-2336	8.3	49
70	Self-assembled IrO ₂ nanoparticles on a DNA scaffold with enhanced catalytic and oxygen evolution reaction (OER) activities. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24463-24478	13	107
69	Self-Assembled NiWO ₄ Nanoparticles into Chain-like Aggregates on DNA Scaffold with Pronounced Catalytic and Supercapacitor Activities. <i>Crystal Growth and Design</i> , 2015 , 15, 673-686	3.5	96
68	DNA-encapsulated chain and wire-like MnO ₂ organosol for oxidative polymerization of pyrrole to polypyrrole. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 5474-84	3.6	26
67	Enhanced catalytic and SERS activities of CTAB stabilized interconnected osmium nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22723-34	3.6	53
66	Electrically conducting osmium nano-chain networks with superior catalytic and SERS performance. <i>RSC Advances</i> , 2014 , 4, 60762-60775	3.7	10
65	Cyclophosphazene-organostannoxane hybrid motifs in polymeric and molecular systems. <i>RSC Advances</i> , 2014 , 4, 53662-53664	3.7	7
64	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> , 2014 , 2, 3782	7.1	64
63	Enhanced catalytic and supercapacitor activities of DNA encapsulated MnO ₂ nanomaterials. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21846-59	3.6	58
62	Shape-selective formation of MnWO ₄ nanomaterials on a DNA scaffold: magnetic, catalytic and supercapacitor studies. <i>RSC Advances</i> , 2014 , 4, 38169	3.7	42
61	DNA-Mediated Fast Synthesis of Shape-Selective ZnO Nanostructures and Their Potential Applications in Catalysis and Dye-Sensitized Solar Cells. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 13667-13679	3.9	34

60	DNA mediated wire-like clusters of self-assembled TiO ₂ nanomaterials: supercapacitor and dye sensitized solar cell applications. <i>Nanoscale</i> , 2014 , 6, 8010-23	7.7	48
59	Supercapacitor and dye-sensitized solar cell (DSSC) applications of shape-selective TiO ₂ nanostructures. <i>RSC Advances</i> , 2014 , 4, 35659	3.7	24
58	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> , 2014 , 446, 199-212	5.1	28
57	Osmium Organosol on DNA: Application in Catalytic Hydrogenation Reaction and in SERS Studies. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 19228-19238	3.9	37
56	Shape-influenced magnetic properties of CoO nanoparticles. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	8
55	Shape-selective synthesis of non-micellar cobalt oxide (CoO) nanomaterials by microwave irradiations. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	21
54	Formation of self-assembled Ag nanoparticles on DNA chains with enhanced catalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14107-19	3.6	74
53	DNA-mediated wirelike clusters of silver nanoparticles: an ultrasensitive SERS substrate. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7798-807	9.5	85
52	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> , 2013 , 1, 831-842	7.1	99
51	The self-assembling of DNA-templated Au nanoparticles into nanowires and their enhanced SERS and catalytic applications. <i>RSC Advances</i> , 2013 , 3, 16486	3.7	61
50	In situ formation of curcumin stabilized shape-selective Ag nanostructures in aqueous solution and their pronounced SERS activity. <i>RSC Advances</i> , 2013 , 3, 25278	3.7	60
49	Self-assembly of gold nanoparticles on poly(allylamine hydrochloride) nanofiber: a new route to fabricate "necklace" as single electron devices. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9949-56	9.5	18
48	Formation of shape-selective magnetic cobalt oxide nanowires: environmental application in catalysis studies. <i>CrystEngComm</i> , 2013 , 15, 482-497	3.3	64
47	Fabrication of catalytically active nanocrystalline samarium (Sm)-doped cerium oxide (CeO ₂) thin films using electron beam evaporation. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	35
46	Photo-induced formation of size-selective Ag nanoparticles and their interactions with Escherichia coli. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 222, 25-33	4.7	5
45	Photo-induced formation of semi-conducting Au/Ag aggregated branched nanoalloys on DNA template. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 377, 87-96	5.1	12
44	Shape-selective formation and characterization of catalytically active iridium nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2011 , 354, 597-606	9.3	61
43	Effects of Particle-Induced Crystallization on Tribological Behavior of Polymer Nanocomposites. <i>Journal of Tribology</i> , 2011 , 133,	1.8	7

42	Effects of Nanostructured Additives on Boundary Lubrication for Potential Artificial Joint Applications. <i>Journal of Tribology</i> , 2010 , 132,	1.8	8
41	Photoinduced formation of shape-selective Pt nanoparticles. <i>Langmuir</i> , 2010 , 26, 6720-7	4	36
40	Formation and Catalytic Application of Electrically Conductive Pt Nanowires. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7700-7709	3.8	30
39	Shape-controlled synthesis of triangular gold nanoprisms using microwave irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 746-54	1.3	4
38	Photochemical synthesis of shape-selective palladium nanocubes in aqueous solution. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2799-2811	2.3	21
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