

# Abdullah M Asiri

## List of Publications by Citations

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325  
papers

33,702  
citations

96  
h-index

179  
g-index

330  
ext. papers

38,147  
ext. citations

7  
avg, IF

7.85  
L-index

#	Paper	IF	Citations
325	Self-supported nanoporous cobalt phosphide nanowire arrays: an efficient 3D hydrogen-evolving cathode over the wide range of pH 0-14. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 7587-90	16.4	1859
324	Recent Progress in Cobalt-Based Heterogeneous Catalysts for Electrochemical Water Splitting. <i>Advanced Materials</i> , <b>2016</b> , 28, 215-30	24	1708
323	Hydrothermal treatment of grass: a low-cost, green route to nitrogen-doped, carbon-rich, photoluminescent polymer nanodots as an effective fluorescent sensing platform for label-free detection of Cu(II) ions. <i>Advanced Materials</i> , <b>2012</b> , 24, 2037-41	24	1151
322	Economical, green synthesis of fluorescent carbon nanoparticles and their use as probes for sensitive and selective detection of mercury(II) ions. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5351-7	7.8	842
321	Carbon nanotubes decorated with CoP nanocrystals: a highly active non-noble-metal nanohybrid electrocatalyst for hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 6710-4	16.4	809
320	A cost-effective 3D hydrogen evolution cathode with high catalytic activity: FeP nanowire array as the active phase. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12855-9	16.4	736
319	Closely interconnected network of molybdenum phosphide nanoparticles: a highly efficient electrocatalyst for generating hydrogen from water. <i>Advanced Materials</i> , <b>2014</b> , 26, 5702-7	24	722
318	Self-supported Cu <sub>3</sub> P nanowire arrays as an integrated high-performance three-dimensional cathode for generating hydrogen from water. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 9577-81	16.4	720
317	Fe-Doped CoP Nanoarray: A Monolithic Multifunctional Catalyst for Highly Efficient Hydrogen Generation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602441	24	690
316	Metal-Organic Framework (MOF) Compounds: Photocatalysts for Redox Reactions and Solar Fuel Production. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5414-45	16.4	675
315	Ternary FeCoP Nanowire Array as a Robust Hydrogen Evolution Reaction Electrocatalyst with Pt-like Activity: Experimental and Theoretical Insight. <i>Nano Letters</i> , <b>2016</b> , 16, 6617-6621	11.5	531
314	Electrochemical Ammonia Synthesis via Nitrogen Reduction Reaction on a MoS Catalyst: Theoretical and Experimental Studies. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800191	24	524
313	Au-nanoparticle-loaded graphitic carbon nitride nanosheets: green photocatalytic synthesis and application toward the degradation of organic pollutants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6815-9	9.5	445
312	Enhanced Electrocatalysis for Energy-Efficient Hydrogen Production over CoP Catalyst with Nonelectroactive Zn as a Promoter. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700020	21.8	428
311	Energy-Saving Electrolytic Hydrogen Generation: Ni P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 842-846	16.4	428
310	Ultrathin graphitic carbon nitride nanosheet: a highly efficient fluorosensor for rapid, ultrasensitive detection of Cu(2+). <i>Analytical Chemistry</i> , <b>2013</b> , 85, 5595-9	7.8	405
309	Boosted Electrocatalytic N <sub>2</sub> Reduction to NH <sub>3</sub> by Defect-Rich MoS <sub>2</sub> Nanoflower. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801357	21.8	371

308	Mn Doping of CoP Nanosheets Array: An Efficient Electrocatalyst for Hydrogen Evolution Reaction with Enhanced Activity at All pH Values. <i>ACS Catalysis</i> , <b>2017</b> , 7, 98-102	13.1	362
307	Self-Supported FeP Nanorod Arrays: A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity. <i>ACS Catalysis</i> , <b>2014</b> , 4, 4065-4069	13.1	356
306	Self-Standing CoP Nanosheets Array: A Three-Dimensional Bifunctional Catalyst Electrode for Overall Water Splitting in both Neutral and Alkaline Media. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1840-1845	4.3	322
305	NiCo2S4 nanowires array as an efficient bifunctional electrocatalyst for full water splitting with superior activity. <i>Nanoscale</i> , <b>2015</b> , 7, 15122-6	7.7	319
304	High-Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 1064-1068	16.4	305
303	Electrodeposited Co-doped NiSe2 nanoparticles film: a good electrocatalyst for efficient water splitting. <i>Nanoscale</i> , <b>2016</b> , 8, 3911-5	7.7	299
302	An amorphous CoSe film behaves as an active and stable full water-splitting electrocatalyst under strongly alkaline conditions. <i>Chemical Communications</i> , <b>2015</b> , 51, 16683-6	5.8	296
301	Mo2C Nanoparticles Decorated Graphitic Carbon Sheets: Biopolymer-Derived Solid-State Synthesis and Application as an Efficient Electrocatalyst for Hydrogen Generation. <i>ACS Catalysis</i> , <b>2014</b> , 4, 2658-2664	13.1	295
300	Ultrathin graphitic carbon nitride nanosheets: a low-cost, green, and highly efficient electrocatalyst toward the reduction of hydrogen peroxide and its glucose biosensing application. <i>Nanoscale</i> , <b>2013</b> , 5, 8921-4	7.7	282
299	Ultrathin graphitic carbon nitride nanosheets: a novel peroxidase mimetic, Fe doping-mediated catalytic performance enhancement and application to rapid, highly sensitive optical detection of glucose. <i>Nanoscale</i> , <b>2013</b> , 5, 11604-9	7.7	268
298	A Zn-doped NiS nanosheet array as a high-performance electrochemical water oxidation catalyst in alkaline solution. <i>Chemical Communications</i> , <b>2017</b> , 53, 12446-12449	5.8	264
297	In Situ Derived Co3B Nanoarray: A High-Efficiency and Durable 3D Bifunctional Electrocatalyst for Overall Alkaline Water Splitting. <i>Small</i> , <b>2017</b> , 13, 1700805	11	257
296	A Fe-doped Ni3S2 particle film as a high-efficiency robust oxygen evolution electrode with very high current density. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23207-23212	13	256
295	CoP Nanosheet Arrays Supported on a Ti Plate: An Efficient Cathode for Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4326-4329	9.6	255
294	Ni2P nanoparticle films supported on a Ti plate as an efficient hydrogen evolution cathode. <i>Nanoscale</i> , <b>2014</b> , 6, 11031-4	7.7	255
293	Tungsten phosphide nanorod arrays directly grown on carbon cloth: a highly efficient and stable hydrogen evolution cathode at all pH values. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 21874-9	9.5	243
292	A Mn-doped NiP nanosheet array: an efficient and durable hydrogen evolution reaction electrocatalyst in alkaline media. <i>Chemical Communications</i> , <b>2017</b> , 53, 11048-11051	5.8	242
291	Co(OH) Nanoparticle-Encapsulating Conductive Nanowires Array: Room-Temperature Electrochemical Preparation for High-Performance Water Oxidation Electrocatalysis. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705366	24	240

290	Cobalt nitride nanowire array as an efficient electrochemical sensor for glucose and H <sub>2</sub> O <sub>2</sub> detection. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 1254-1261	8.5	225
289	High-Performance N-to-NH Conversion Electrocatalyzed by MoC Nanorod. <i>ACS Central Science</i> , <b>2019</b> , 5, 116-121	16.8	223
288	High-performance urea electrolysis towards less energy-intensive electrochemical hydrogen production using a bifunctional catalyst electrode. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3208-3213	13	211
287	Co-Doped CuO Nanoarray: An Efficient Oxygen Evolution Reaction Electrocatalyst with Enhanced Activity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2883-2887	8.3	211
286	Three-dimensional porous supramolecular architecture from ultrathin g-C(3)N(4) nanosheets and reduced graphene oxide: solution self-assembly construction and application as a highly efficient metal-free electrocatalyst for oxygen reduction reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1011-7	9.5	210
285	Efficient Electrochemical Water Splitting Catalyzed by Electrodeposited Nickel Diselenide Nanoparticles Based Film. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4718-23	9.5	207
284	CoP nanostructures with different morphologies: synthesis, characterization and a study of their electrocatalytic performance toward the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14634	13	205
283	Design and Application of Foams for Electrocatalysis. <i>ChemCatChem</i> , <b>2017</b> , 9, 1721-1743	5.2	202
282	Al-Doped CoP nanoarray: a durable water-splitting electrocatalyst with superhigh activity. <i>Nanoscale</i> , <b>2017</b> , 9, 4793-4800	7.7	200
281	High-Efficiency Electrochemical Hydrogen Evolution Catalyzed by Tungsten Phosphide Submicroparticles. <i>ACS Catalysis</i> , <b>2015</b> , 5, 145-149	13.1	200
280	Ultrathin graphitic C <sub>3</sub> N <sub>4</sub> nanosheets/graphene composites: efficient organic electrocatalyst for oxygen evolution reaction. <i>ChemSusChem</i> , <b>2014</b> , 7, 2125-30	8.3	198
279	Self-supported NiMo hollow nanorod array: an efficient 3D bifunctional catalytic electrode for overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20056-20059	13	189
278	Microwave-assisted rapid green synthesis of photoluminescent carbon nanodots from flour and their applications for sensitive and selective detection of mercury(II) ions. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 184, 156-162	8.5	184
277	A porous Ni <sub>3</sub> N nanosheet array as a high-performance non-noble-metal catalyst for urea-assisted electrochemical hydrogen production. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 1120-1124	6.8	183
276	Fabrication of hierarchical CoP nanosheet@microwire arrays via space-confined phosphidation toward high-efficiency water oxidation electrocatalysis under alkaline conditions. <i>Nanoscale</i> , <b>2018</b> , 10, 7941-7945	7.7	178
275	MnO <sub>2</sub> -CoP <sub>3</sub> nanowires array: An efficient electrocatalyst for alkaline oxygen evolution reaction with enhanced activity. <i>Electrochemistry Communications</i> , <b>2018</b> , 86, 161-165	5.1	178
274	In situ formation of a 3D core/shell structured Ni <sub>3</sub> N@NiBi nanosheet array: an efficient non-noble-metal bifunctional electrocatalyst toward full water splitting under near-neutral conditions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7806-7810	13	172
273	P-Doped Ag Nanoparticles Embedded in N-Doped Carbon Nanoflake: An Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4499-4503	8.3	172

272	Three-Dimensional Ni <sub>2</sub> P Nanoarray: An Efficient Catalyst Electrode for Sensitive and Selective Nonenzymatic Glucose Sensing with High Specificity. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7885-9	7.8	172
271	Iron-based phosphides as electrocatalysts for the hydrogen evolution reaction: recent advances and future prospects. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 19729-19745	13	166
270	A self-standing nanoporous MoP <sub>2</sub> nanosheet array: an advanced pH-universal catalytic electrode for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7169-7173	13	165
269	Fe-Doped NiP Nanosheet Array for High-Efficiency Electrochemical Water Oxidation. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 1041-1044	5.1	164
268	Efficient Electrochemical N <sub>2</sub> Reduction to NH <sub>3</sub> on MoN Nanosheets Array under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9550-9554	8.3	164
267	Activated carbon nanotubes: a highly-active metal-free electrocatalyst for hydrogen evolution reaction. <i>Chemical Communications</i> , <b>2014</b> , 50, 9340-2	5.8	163
266	NiS <sub>2</sub> nanosheets array grown on carbon cloth as an efficient 3D hydrogen evolution cathode. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 508-514	6.7	161
265	CoSe <sub>2</sub> nanowires array as a 3D electrode for highly efficient electrochemical hydrogen evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 3877-81	9.5	160
264	Mixed-metal or mixed-linker metal organic frameworks as heterogeneous catalysts. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 5238-5261	5.5	157
263	Selective phosphidation: an effective strategy toward CoP/CeO <sub>2</sub> interface engineering for superior alkaline hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1985-1990	13	151
262	Green, low-cost synthesis of photoluminescent carbon dots by hydrothermal treatment of willow bark and their application as an effective photocatalyst for fabricating Au nanoparticles/reduced graphene oxide nanocomposites for glucose detection. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 1027	5.5	150
261	FeP nanoparticles film grown on carbon cloth: an ultrahighly active 3D hydrogen evolution cathode in both acidic and neutral solutions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 20579-84	9.5	150
260	Metal Organic Frameworks as Versatile Hosts of Au Nanoparticles in Heterogeneous Catalysis. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2896-2919	13.1	148
259	An amorphous Co-carbonate-hydroxide nanowire array for efficient and durable oxygen evolution reaction in carbonate electrolytes. <i>Nanoscale</i> , <b>2017</b> , 9, 16612-16615	7.7	145
258	A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity: FeP Nanowire Array as the Active Phase. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13069-13073	3.6	141
257	Ni <sub>3</sub> S <sub>2</sub> nanosheets array supported on Ni foam: A novel efficient three-dimensional hydrogen-evolving electrocatalyst in both neutral and basic solutions. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 4727-4732	6.7	140
256	Self-supported CoP nanosheet arrays: a non-precious metal catalyst for efficient hydrogen generation from alkaline NaBH <sub>4</sub> solution. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13053-13057	13	139
255	Self-Supported Cu <sub>3</sub> P Nanowire Arrays as an Integrated High-Performance Three-Dimensional Cathode for Generating Hydrogen from Water. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9731-9735	3.6	138

254	Iron-doped nickel disulfide nanoarray: A highly efficient and stable electrocatalyst for water splitting. <i>Nano Research</i> , <b>2016</b> , 9, 3346-3354	10	135
253	Sulfur-doped graphene for efficient electrocatalytic N-to-NH fixation. <i>Chemical Communications</i> , <b>2019</b> , 55, 3371-3374	5.8	131
252	Enhanced electrooxidation of urea using NiMoO <sub>4</sub> ·xH <sub>2</sub> O nanosheet arrays on Ni foam as anode. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 456-460	6.7	130
251	3D macroporous MoS <sub>2</sub> thin film: in situ hydrothermal preparation and application as a highly active hydrogen evolution electrocatalyst at all pH values. <i>Electrochimica Acta</i> , <b>2015</b> , 168, 133-138	6.7	128
250	High-Efficiency Electrosynthesis of Ammonia with High Selectivity under Ambient Conditions Enabled by VN Nanosheet Array. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9545-9549	8.3	127
249	Acidically oxidized carbon cloth: a novel metal-free oxygen evolution electrode with high catalytic activity. <i>Chemical Communications</i> , <b>2015</b> , 51, 1616-9	5.8	126
248	Nickel promoted cobalt disulfide nanowire array supported on carbon cloth: An efficient and stable bifunctional electrocatalyst for full water splitting. <i>Electrochemistry Communications</i> , <b>2016</b> , 63, 60-64	5.1	125
247	Template-assisted synthesis of CoP nanotubes to efficiently catalyze hydrogen-evolving reaction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14812-14816	13	125
246	Green synthesis of plant supported CuAg and CuNi bimetallic nanoparticles in the reduction of nitrophenols and organic dyes for water treatment. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 260, 78-91	6	124
245	Integrating natural biomass electro-oxidation and hydrogen evolution: using a porous Fe-doped CoP nanosheet array as a bifunctional catalyst. <i>Chemical Communications</i> , <b>2017</b> , 53, 5710-5713	5.8	121
244	Ni <sub>3</sub> Se <sub>2</sub> film as a non-precious metal bifunctional electrocatalyst for efficient water splitting. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 4954-4958	5.5	117
243	Energy-Saving Electrolytic Hydrogen Generation: Ni <sub>2</sub> P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 860-864	3.6	116
242	Copper-Nitride Nanowires Array: An Efficient Dual-Functional Catalyst Electrode for Sensitive and Selective Non-Enzymatic Glucose and Hydrogen Peroxide Sensing. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 4986-4989	4.8	114
241	Three-Dimensional Structures of MoS <sub>2</sub> @Ni Core/Shell Nanosheets Array toward Synergetic Electrocatalytic Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14521-6	9.5	114
240	Metal-organic frameworks for solar energy conversion by photoredox catalysis. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 373, 83-115	23.2	113
239	Cu(OH) <sub>2</sub> @CoCO(OH)·xH <sub>2</sub> O Core-Shell Heterostructure Nanowire Array: An Efficient 3D Anodic Catalyst for Oxygen Evolution and Methanol Electrooxidation. <i>Small</i> , <b>2017</b> , 13, 1602755	11	110
238	An amorphous FeMoS nanorod array toward efficient hydrogen evolution electrocatalysis under neutral conditions. <i>Chemical Communications</i> , <b>2017</b> , 53, 9000-9003	5.8	108
237	Highly-active oxygen evolution electrocatalyzed by a Fe-doped NiSe nanoflake array electrode. <i>Chemical Communications</i> , <b>2016</b> , 52, 4529-32	5.8	105



236	Engineering UiO-66 Metal Organic Framework for Heterogeneous Catalysis. <i>ChemCatChem</i> , <b>2019</b> , 11, 899-923	5.2	104
235	Recent advances in emerging 2D nanomaterials for biosensing and bioimaging applications. <i>Materials Today</i> , <b>2018</b> , 21, 164-177	21.8	104
234	Fe N-Co N Nanowires Array: A Non-Noble-Metal Bifunctional Catalyst Electrode for High-Performance Glucose Oxidation and H <sub>2</sub> O Reduction toward Non-Enzymatic Sensing Applications. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5214-5218	4.8	103
233	An Fe(TCNQ) nanowire array on Fe foil: an efficient non-noble-metal catalyst for the oxygen evolution reaction in alkaline media. <i>Chemical Communications</i> , <b>2018</b> , 54, 2300-2303	5.8	102
232	NiCoP Nanoarray: A Superior Pseudocapacitor Electrode with High Areal Capacitance. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 4435-4441	4.8	101
231	Catalysis by metal-organic frameworks in water. <i>Chemical Communications</i> , <b>2014</b> , 50, 12800-14	5.8	101
230	Tungsten nitride nanorods array grown on carbon cloth as an efficient hydrogen evolution cathode at all pH values. <i>Electrochimica Acta</i> , <b>2015</b> , 154, 345-351	6.7	98
229	Graphitic carbon nitride nanosheets: one-step, high-yield synthesis and application for Cu <sup>2+</sup> detection. <i>Analyst, The</i> , <b>2014</b> , 139, 5065-8	5	95
228	A self-supported NiMoS <sub>4</sub> nanoarray as an efficient 3D cathode for the alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16585-16589	13	94
227	Interconnected urchin-like cobalt phosphide microspheres film for highly efficient electrochemical hydrogen evolution in both acidic and basic media. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10114-10117	13	92
226	Hexagonal boron nitride nanosheet for effective ambient N <sub>2</sub> fixation to NH <sub>3</sub> . <i>Nano Research</i> , <b>2019</b> , 12, 919-924	10	88
225	One-step electrodeposition of NiCoS nanosheets film as a bifunctional electrocatalyst for efficient water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 7264-7269	6.7	88
224	Sulfur dots-graphene nanohybrid: a metal-free electrocatalyst for efficient N-to-NH fixation under ambient conditions. <i>Chemical Communications</i> , <b>2019</b> , 55, 3152-3155	5.8	88
223	Cu/(Cu(OH) <sub>2</sub> -CuO) core/shell nanorods array: in-situ growth and application as an efficient 3D oxygen evolution anode. <i>Electrochimica Acta</i> , <b>2015</b> , 163, 102-106	6.7	86
222	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. <i>Small Structures</i> , <b>2021</b> , 2, 2000048	8.7	86
221	Energy-efficient electrolytic hydrogen generation using a Cu <sub>3</sub> P nanoarray as a bifunctional catalyst for hydrazine oxidation and water reduction. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 420-423	6.8	84
220	Bimetallic Nickel-Substituted Cobalt-Borate Nanowire Array: An Earth-Abundant Water Oxidation Electrocatalyst with Superior Activity and Durability at Near Neutral pH. <i>Small</i> , <b>2017</b> , 13, 1700394	11	84
219	Ternary NiCoP nanosheet array on a Ti mesh: a high-performance electrochemical sensor for glucose detection. <i>Chemical Communications</i> , <b>2016</b> , 52, 14438-14441	5.8	84

218	Iron-group electrocatalysts for ambient nitrogen reduction reaction in aqueous media. <i>Nano Research</i> , <b>2021</b> , 14, 555-569	10	84
217	Cobalt phosphide nanowire array as an effective electrocatalyst for non-enzymatic glucose sensing. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 1901-1904	7.3	83
216	Zn <sub>0.76</sub> Co <sub>0.24</sub> S/CoS <sub>2</sub> nanowires array for efficient electrochemical splitting of water. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 360-364	6.7	83
215	Cobalt phosphide nanoparticles film growth on carbon cloth: A high-performance cathode for electrochemical hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 16806-16811	6.7	79
214	A Ni <sub>2</sub> P nanosheet array integrated on 3D Ni foam: an efficient, robust and reusable monolithic catalyst for the hydrolytic dehydrogenation of ammonia borane toward on-demand hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12407-12410	13	76
213	CoP nanoarray: a robust non-noble-metal hydrogen-generating catalyst toward effective hydrolysis of ammonia borane. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 659-662	6.8	75
212	In situ electrochemical surface derivation of cobalt phosphate from a Co(CO)(OH) <sub>2</sub> ·11H <sub>2</sub> O nanoarray for efficient water oxidation in neutral aqueous solution. <i>Nanoscale</i> , <b>2017</b> , 9, 3752-3756	7.7	75
211	Three-dimensional interconnected network of nanoporous CoP nanowires as an efficient hydrogen evolution cathode. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 16909-13	3.6	75
210	Tuneable nature of metal organic frameworks as heterogeneous solid catalysts for alcohol oxidation. <i>Chemical Communications</i> , <b>2017</b> , 53, 10851-10869	5.8	75
209	An Fe-MOF nanosheet array with superior activity towards the alkaline oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1405-1408	6.8	73
208	Amorphous Ni-B alloy nanoparticle film on Ni foam: rapid alternately dipping deposition for efficient overall water splitting. <i>Nanotechnology</i> , <b>2016</b> , 27, 12LT01	3.4	73
207	An MnO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nano hybrid: an efficient and durable electrocatalyst toward artificial N <sub>2</sub> fixation to NH <sub>3</sub> under ambient conditions. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18823-18827	13	73
206	Nitrogen-doped carbon nanotube supported iron phosphide nanocomposites for highly active electrocatalysis of the hydrogen evolution reaction. <i>Electrochimica Acta</i> , <b>2014</b> , 149, 324-329	6.7	73
205	Highly Selective Electrochemical Reduction of CO to Alcohols on an FeP Nanoarray. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 758-762	16.4	73
204	Spinel LiMnO Nanofiber: An Efficient Electrocatalyst for N Reduction to NH <sub>3</sub> under Ambient Conditions. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 9597-9601	5.1	72
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201	Ultrathin graphitic C <sub>3</sub> N <sub>4</sub> nanofibers: Hydrolysis-driven top-down rapid synthesis and application as a novel fluorosensor for rapid, sensitive, and selective detection of Fe <sup>3+</sup> . <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 216, 453-460	8.5	69



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192	Electrocatalytic N-to-NH conversion using oxygen-doped graphene: experimental and theoretical studies. <i>Chemical Communications</i> , <b>2019</b> , 55, 7502-7505	5.8	63
191	Efficient Hydrogen Evolution Electrocatalysis at Alkaline pH by Interface Engineering of NiP-CeO. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 548-552	5.1	63
190	Monolithically integrated copper phosphide nanowire: An efficient electrocatalyst for sensitive and selective nonenzymatic glucose detection. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 244, 11-16	8.5	62
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47	Experimental Investigations in the Drilling of Hybrid Fiber Composites <b>2020</b> , 69-85		2
46	Mechanical Behavior of Synthetic/Natural Fibers in Hybrid Composites <b>2020</b> , 129-146		2
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33	Thermomechanical Characterization of Vacuum Resin Infusion-Molded Ceramic Rock-Derived Natural Wool-Reinforced Epoxy and Cashew Nut Shell Liquid-Based Composites <b>2020</b> , 265-306		1
32	Effect of Process Engineering on the Performance of Hybrid Fiber Composites <b>2020</b> , 17-40		1
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30	Electrically Conductive Polymers and Composites for Biomedical Applications <b>2018</b> , 219-235		1
29	Graphene and Graphene Oxide Polymer Composite for Biosensors Applications <b>2018</b> , 93-112		1
28	Carbon Nanomaterial-Based Conducting Polymer Composites for Biosensing Applications <b>2018</b> , 69-91		1
27	Bioinspired Polydopamine and Composites for Biomedical Applications <b>2018</b> , 1-29		1
26	Graphene and Graphene Sheets Based Nanocomposites <b>2016</b> , 107-150		1
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18	Preparation and characterization of lignin/nano graphene oxide/styrene butadiene rubber composite for automobile tyre application.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 206, 363-370	7.9	1
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15	Mechanical and Physical Test of Hybrid Fiber Composites <b>2020</b> , 41-68		0
14	Fracture Analysis on Silk and Glass Fiber-Reinforced Hybrid Composites <b>2020</b> , 87-97		0
13	Comparative Green and Conventional Synthesis of 2-Hydroxy-1-Naphthaldehyde Based Barbiturates and Their DFT Study. <i>Polycyclic Aromatic Compounds</i> ,1-17	1.3	0
12	Synthesis of N-Methylspiropyrrolidine Hybrids for Their Structural Characterization, Biological and Molecular Docking Studies. <i>Polycyclic Aromatic Compounds</i> ,1-14	1.3	0
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10	Failure Mechanisms of Fiber Composites <b>2020</b> , 99-116		
9	Flame-Retardant Balsa Wood/GFRP Sandwich Composites, Mechanical Evaluation, and Comparisons with Other Sandwich Composites <b>2020</b> , 169-195		
8	Influence of Fiber Content in the Water Absorption and Mechanical Properties of Sisal Fiber Powder Composites <b>2020</b> , 369-380		
7	Recent Advances of Hybrid Fiber Composites for Various Applications <b>2020</b> , 381-404		
6	Ballistic Behavior of Fiber Composites <b>2020</b> , 117-127		
5	Multifunctional Polymer-Dilute Magnetic Conductor and Bio-Devices <b>2018</b> , 31-46		
4	Polymer/Inorganic Nanocomposite and Biosensors <b>2018</b> , 47-68		
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