Tapas Kuila

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11,467 167 48 105 h-index g-index citations papers 6.61 173 12,950 7.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
167	Chemical functionalization of graphene and its applications. <i>Progress in Materials Science</i> , 2012 , 57, 106	1 ₄ <u>11</u> 05	5 1351
166	Recent advances in graphene-based biosensors. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4637-48	11.8	1025
165	Polymer membranes for high temperature proton exchange membrane fuel cell: Recent advances and challenges. <i>Progress in Polymer Science</i> , 2011 , 36, 813-843	29.6	669
164	Carbon-based nanostructured materials and their composites as supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 767-784		579
163	In-situ synthesis and characterization of electrically conductive polypyrrole/graphene nanocomposites. <i>Polymer</i> , 2010 , 51, 5921-5928	3.9	417
162	Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. <i>Nanoscale</i> , 2013 , 5, 52-71	7.7	392
161	A green approach for the reduction of graphene oxide by wild carrot root. <i>Carbon</i> , 2012 , 50, 914-921	10.4	286
160	Preparation of functionalized graphene/linear low density polyethylene composites by a solution mixing method. <i>Carbon</i> , 2011 , 49, 1033-1037	10.4	282
159	Enhanced mechanical properties of silanized silica nanoparticle attached graphene oxide/epoxy composites. <i>Composites Science and Technology</i> , 2013 , 79, 115-125	8.6	281
158	Simultaneous bio-functionalization and reduction of graphene oxide by baker's yeast. <i>Chemical Engineering Journal</i> , 2012 , 183, 526-533	14.7	210
157	In situ synthesis of the reduced graphene oxidepolyethyleneimine composite and its gas barrier properties. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3739	13	192
156	Dual role of glycine as a chemical functionalizer and a reducing agent in the preparation of graphene: an environmentally friendly method. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9696		191
155	Simultaneous reduction, functionalization and stitching of graphene oxide with ethylenediamine for composites application. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1349-1358	13	178
154	Efficient synthesis of graphene sheets using pyrrole as a reducing agent. <i>Carbon</i> , 2011 , 49, 3497-3502	10.4	175
153	Effect of functionalized graphene on the physical properties of linear low density polyethylene nanocomposites. <i>Polymer Testing</i> , 2012 , 31, 31-38	4.5	164
152	Silicate-based polymer-nanocomposite membranes for polymer electrolyte membrane fuel cells. <i>Progress in Polymer Science</i> , 2012 , 37, 842-869	29.6	161
151	Cobalt Sulfide/Nickel Sulfide Heterostructure Directly Grown on Nickel Foam: An Efficient and Durable Electrocatalyst for Overall Water Splitting Application. <i>ACS Applied Materials & Discrete Mater</i>	9.5	160

150	Recent advances in graphene and its metal-oxide hybrid nanostructures for lithium-ion batteries. <i>Nanoscale</i> , 2015 , 7, 4820-68	7.7	152
149	Characterization and properties of in situ emulsion polymerized poly(methyl methacrylate)/graphene nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 1856-1861	8.4	140
148	Simultaneous reduction, exfoliation, and nitrogen doping of graphene oxide via a hydrothermal reaction for energy storage electrode materials. <i>Carbon</i> , 2014 , 69, 66-78	10.4	139
147	Electrochemical performance of a graphene-polypyrrole nanocomposite as a supercapacitor electrode. <i>Nanotechnology</i> , 2011 , 22, 295202	3.4	132
146	Facile preparation of flower-like NiCo 2 O 4 /three dimensional graphene foam hybrid for high performance supercapacitor electrodes. <i>Carbon</i> , 2015 , 89, 328-339	10.4	120
145	Effects of processing conditions of poly(methylmethacrylate) encapsulated liquid curing agent on the properties of self-healing composites. <i>Composites Part B: Engineering</i> , 2013 , 49, 6-15	10	105
144	Optimization of active surface area of flower like MoS2 using V-doping towards enhanced hydrogen evolution reaction in acidic and basic medium. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 432-442	21.8	104
143	Non-covalent functionalization of reduced graphene oxide using sulfanilic acid azocromotrop and its application as a supercapacitor electrode material. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7323-73	337	103
142	Functionalized-graphene/ethylene vinyl acetate co-polymer composites for improved mechanical and thermal properties. <i>Polymer Testing</i> , 2012 , 31, 282-289	4.5	102
141	Carbon dot stabilized copper sulphide nanoparticles decorated graphene oxide hydrogel for high performance asymmetric supercapacitor. <i>Carbon</i> , 2017 , 122, 247-257	10.4	100
140	Band Gap Engineering of Boron Nitride by Graphene and Its Application as Positive Electrode Material in Asymmetric Supercapacitor Device. <i>ACS Applied Materials & Amp; Interfaces</i> , 2015 , 7, 14211-2	2 ^{9.5}	100
139	Recent advances in application of biosensors in tissue engineering. <i>BioMed Research International</i> , 2014 , 2014, 307519	3	94
138	Preparation of water-dispersible graphene by facile surface modification of graphite oxide. <i>Nanotechnology</i> , 2011 , 22, 305710	3.4	82
137	Growth of Nito binary hydroxide on a reduced graphene oxide surface by a successive ionic layer adsorption and reaction (SILAR) method for high performance asymmetric supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2188-2197	13	80
136	Bio-reduction of graphene oxide using drained water from soaked mung beans (Phaseolus aureus L.) and its application as energy storage electrode material. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 186, 33-40	3.1	80
135	Covalent surface modification of chemically derived graphene and its application as supercapacitor electrode material. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7618-26	3.6	79
134	Electrochemically exfoliated graphene using 9-anthracene carboxylic acid for supercapacitor application. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24403		79
133	Facile method for the preparation of water dispersible graphene using sulfonated poly(ether-ether-ketone) and its application as energy storage materials. <i>Langmuir</i> , 2012 , 28, 9825-33	4	76

132	Effects of various surfactants on the dispersion stability and electrical conductivity of surface modified graphene. <i>Journal of Alloys and Compounds</i> , 2013 , 562, 134-142	5.7	72
131	A review on the heterostructure nanomaterials for supercapacitor application. <i>Journal of Energy Storage</i> , 2018 , 17, 181-202	7.8	71
130	Facile synthesis of novel sulfonated polyaniline functionalized graphene using m-aminobenzene sulfonic acid for asymmetric supercapacitor application. <i>Chemical Engineering Journal</i> , 2017 , 308, 1174-	1 18 7	70
129	Nanolubricants dispersed with graphene and its derivatives: an assessment and review of the tribological performance. <i>Nanoscale</i> , 2019 , 11, 3458-3483	7.7	68
128	Effects of surface-modified silica nanoparticles attached graphene oxide using isocyanate-terminated flexible polymer chains on the mechanical properties of epoxy composites. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10557-10567	13	63
127	Preparation of reduced graphene oxide-NiFe 2 O 4 nanocomposites for the electrocatalytic oxidation of hydrazine. <i>Composites Part B: Engineering</i> , 2015 , 79, 649-659	10	62
126	Thermoplastic polyolefin based polymer [blend-layered double hydroxide nanocomposites. Composites Science and Technology, 2008 , 68, 3234-3239	8.6	60
125	Micro-crack behavior of carbon fiber reinforced thermoplastic modified epoxy composites for cryogenic applications. <i>Composites Part B: Engineering</i> , 2013 , 44, 533-539	10	58
124	Superior performance of asymmetric supercapacitor based on reduced graphene oxidefinanganese carbonate as positive and sono-chemically reduced graphene oxide as negative electrode materials. Journal of Power Sources, 2016, 303, 222-233	8.9	57
123	Synthesis and characterization of polyurethane/Mg-Al layered double hydroxide nanocomposites. Journal of Applied Polymer Science, 2009 , 114, 2691-2699	2.9	56
122	Effects of covalent surface modifications on the electrical and electrochemical properties of graphene using sodium 4-aminoazobenzene-4?-sulfonate. <i>Carbon</i> , 2013 , 54, 310-322	10.4	54
121	Functionalized reduced graphene oxide/epoxy composites with enhanced mechanical properties and thermal stability. <i>Polymer Testing</i> , 2017 , 63, 1-11	4.5	54
120	Enhancing the ionic conductivity of PEO based plasticized composite polymer electrolyte by LaMnO3 nanofiller. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 137, 217-224	3.1	54
119	Hydrothermal synthesis of Fe3O4/RGO composites and investigation of electrochemical performances for energy storage applications. <i>RSC Advances</i> , 2014 , 4, 44777-44785	3.7	48
118	Preparation of sulfonated poly(ether ther tensor) functionalized ternary graphene/AuNPs/chitosan nanocomposite for efficient glucose biosensor. <i>Process Biochemistry</i> , 2013 , 48, 1724-1735	4.8	46
117	Electrostatically assembled layer-by-layer composites containing graphene oxide for enhanced hydrogen gas barrier application. <i>Composites Science and Technology</i> , 2013 , 89, 167-174	8.6	45
116	Band gap modified boron doped NiO/Fe3O4 nanostructure as the positive electrode for high energy asymmetric supercapacitors. <i>RSC Advances</i> , 2016 , 6, 1380-1387	3.7	44
115	Keratin-derived functional carbon with superior charge storage and transport for high-performance supercapacitors. <i>Carbon</i> , 2020 , 168, 419-438	10.4	44

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114	A successive ionic layer adsorption and reaction (SILAR) method to rabricate a layer-by-layer (LbL) MnO2-reduced graphene oxide assembly for supercapacitor application. <i>Journal of Power Sources</i> , 2017 , 340, 380-392	8.9	43
113	N-doped carbon layer coated thermally exfoliated graphene and its capacitive behavior in redox active electrolyte. <i>Carbon</i> , 2015 , 85, 60-71	10.4	43
112	In-situ hydrothermal synthesis of MnO2/NiO@Ni hetero structure electrode for hydrogen evolution reaction and high energy asymmetric supercapacitor applications. <i>Journal of Energy Storage</i> , 2016 , 6, 22-31	7.8	43
111	Protic ionic liquid-functionalized mesoporous silica-based hybrid membranes for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24366		43
110	Preparation of non-covalently functionalized graphene using 9-anthracene carboxylic acid. <i>Nanotechnology</i> , 2011 , 22, 405603	3.4	43
109	Enhanced properties of aryl diazonium salt-functionalized graphene/poly(vinyl alcohol) composites. <i>Chemical Engineering Journal</i> , 2014 , 245, 311-322	14.7	40
108	Effects of hydrazine reduced graphene oxide on the inter-laminar fracture toughness of woven carbon fiber/epoxy composite. <i>Composites Part B: Engineering</i> , 2018 , 149, 22-30	10	38
107	Enhanced mechanical properties of a multiwall carbon nanotube attached pre-stitched graphene oxide filled linear low density polyethylene composite. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2681-26	139 139	38
106	Tribological behavior of dodecylamine functionalized graphene nanosheets dispersed engine oil nanolubricants. <i>Tribology International</i> , 2019 , 131, 605-619	4.9	38
105	One pot synthesis of Cu2O/RGO composite using mango bark extract and exploration of its electrochemical properties. <i>Electrochimica Acta</i> , 2016 , 193, 104-115	6.7	37
104	7,7,8,8-Tetracyanoquinodimethane-assisted one-step electrochemical exfoliation of graphite and its performance as an electrode material. <i>Nanoscale</i> , 2014 , 6, 4864-73	7.7	37
103	Binder-Free Growth of Nickel-Doped Iron Sulfide on Nickel Foam via Electrochemical Deposition for Electrocatalytic Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18015-18026	8.3	36
102	Synthesis and characterization of ethylene vinyl acetate/MgAl layered double hydroxide nanocomposites. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 1845-1851	2.9	36
101	Effect of vinyl acetate content on the mechanical and thermal properties of ethylene vinyl acetate/MgAl layered double hydroxide nanocomposites. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 1329-1335	2.9	36
100	Development of carbon coated NiS2 as positive electrode material for high performance asymmetric supercapacitor. <i>Composites Part B: Engineering</i> , 2019 , 177, 107373	10	34
99	Synergistic effect of Fe3O4 anchored N-doped rGO hybrid on mechanical, thermal and electromagnetic shielding properties of epoxy composites. <i>Composites Part B: Engineering</i> , 2019 , 166, 371-381	10	34
98	Rubber/LDH nanocomposites by solution blending. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 635-64	Ы 9	34
97	Effect of high molecular weight polyethyleneimine functionalized graphene oxide coated polyethylene terephthalate film on the hydrogen gas barrier properties. <i>Composites Part B:</i> Engineering, 2016, 106, 316-323	10	33

96	Effects of reduction and polystyrene sulfate functionalization on the capacitive behaviour of thermally exfoliated graphene. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5892	13	32
95	Bioinspired silver nanoparticles/reduced graphene oxide nanocomposites for catalytic reduction of 4-nitrophenol, organic dyes and act as energy storage electrode material. <i>Composites Part B: Engineering</i> , 2019 , 173, 106924	10	31
94	Investigation of electrochemical charge storage in nickel-cobalt-selenide/reduced graphene oxide composite electrode and its hybrid supercapacitor device. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155432	5.7	31
93	Effects of sodium hydroxide on the yield and electrochemical performance of sulfonated poly(ether-ether-ketone) functionalized graphene. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9294	13	31
92	Effects of hybrid carbon fillers of polymer composite bipolar plates on the performance of direct methanol fuel cells. <i>Composites Part B: Engineering</i> , 2013 , 51, 98-105	10	31
91	Morphology controlled synthesis of MnCO3RGO materials and their supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12863-12872	13	30
90	Anticorrosion Properties of Epoxy Composite Coating Reinforced by Molybdate-Intercalated Functionalized Layered Double Hydroxide. <i>Journal of Composites Science</i> , 2019 , 3, 11	3	30
89	One-step electrochemical synthesis of 6-amino-4-hydroxy-2-napthalene-sulfonic acid functionalized graphene for green energy storage electrode materials. <i>Nanotechnology</i> , 2013 , 24, 365706	3.4	30
88	Material selection windows for hybrid carbons/poly(phenylene sulfide) composite for bipolar plates of fuel cell. <i>Polymer Testing</i> , 2012 , 31, 537-545	4.5	29
87	Hierarchical Cobalt Sulfide/Molybdenum Sulfide Heterostructure as Bifunctional Electrocatalyst towards Overall Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 430-438	4.3	29
86	Investigation of band structure and electrochemical properties of h-BN/rGO composites for asymmetric supercapacitor applications. <i>Materials Chemistry and Physics</i> , 2017 , 190, 153-165	4.4	28
85	Interface engineering for the improvement of mechanical and thermal properties of covalent functionalized graphene/epoxy composites. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46124	2.9	28
84	Effect of layered silicate on EPDM/EVA blend nanocomposite: Dynamic mechanical, thermal, and swelling properties. <i>Polymer Composites</i> , 2008 , 29, 443-450	3	28
83	Electrochemical performance of reduced graphene oxide surface-modified with 9-anthracene carboxylic acid. <i>RSC Advances</i> , 2015 , 5, 6443-6451	3.7	27
82	Static and Dynamic Mechanical Properties of Graphene Oxide-Incorporated Woven Carbon Fiber/Epoxy Composite. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1138-1147	1.6	27
81	Development of high energy density supercapacitor through hydrothermal synthesis of RGO/nano-structured cobalt sulphide composites. <i>Nanotechnology</i> , 2015 , 26, 075402	3.4	27
80	Lipase-catalyzed synthesis and characterization of biodegradable polyester containing l-malic acid unit in solvent system. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 1114-1120	2.9	27
79	Activation Strategy of MoS as HER Electrocatalyst through Doping-Induced Lattice Strain, Band Gap Engineering, and Active Crystal Plane Design. <i>ACS Applied Materials & Desigon & Desigon Materials & Desigon & Desigon</i>	9.5	26

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78	Effect of Ion Diffusion in Cobalt Molybdenum Bimetallic Sulfide toward Electrocatalytic Water Splitting. <i>ACS Applied Materials & Splitting and Splitting and Splitting and Splitting and Splitting and Splitting and Splitting are splitted as a splitting and splitting are splitted as a splitting and splitting are splitted as a splitting are splitting as a splitting are splitted as a splitting are splitting as a splitting </i>	9.5	25
77	Investigation of the mechanical and thermal properties of l-glutathione modified graphene/epoxy composites. <i>Composites Part B: Engineering</i> , 2018 , 143, 105-112	10	25
76	Effects of acid vapour mediated oxidization on the electrochemical performance of thermally exfoliated graphene. <i>Carbon</i> , 2014 , 74, 195-206	10.4	23
75	Effect of peptizer on the properties of Nafion Laponite clay nanocomposite membranes for polymer electrolyte membrane fuel cells. <i>Journal of Membrane Science</i> , 2012 , 389, 316-323	9.6	23
74	Electromagnetic interference shielding and thermal properties of non-covalently functionalized reduced graphene oxide/epoxy composites. <i>AIMS Materials Science</i> , 2016 , 4, 61-74	1.9	23
73	Investigation of Electrochemical Charge Storage Efficiency of NiCo2Se4/RGO Composites Derived at Varied Duration and Its Asymmetric Supercapacitor Device. <i>Energy & Devices</i> , 2020 , 34, 13056-1306	5 6 .1	23
72	Experimental and numerical investigation on the mechanical characteristics of polyethylenimine functionalized graphene oxide incorporated woven carbon fibre/epoxy composites. <i>Composites Part B: Engineering</i> , 2019 , 156, 240-251	10	22
71	Effect of Dodecyal Amine Functionalized Graphene on the Mechanical and Thermal Properties of Epoxy-Based Composites. <i>Polymer Engineering and Science</i> , 2016 , 56, 1221-1228	2.3	22
70	Electrochemical performance of a graphene-polypyrrole nanocomposite as a supercapacitor electrode. <i>Nanotechnology</i> , 2011 , 22, 369502	3.4	19
69	Analytical and experimental investigation on magnetorheological behavior of CoFe2O4-rGO-incorporated epoxy fluid composites. <i>Advanced Composites and Hybrid Materials</i> , 2019 , 2, 266-278	8.7	19
68	An account of the strategies to enhance the water splitting efficiency of noble-metal-free electrocatalysts. <i>Journal of Energy Chemistry</i> , 2021 , 59, 160-190	12	18
67	In situ preparation of a SAC-RGO@Ni electrode by electrochemical functionalization of reduced graphene oxide using sulfanilic acid azocromotrop and its application in asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19461-19468	13	17
66	Ethylene vinyl acetate/Mg-Al LDH nanocomposites by solution blending. <i>Polymer Composites</i> , 2009 , 30, 497-502	3	16
65	Alteration in capacitive performance of Sn-decorated MnO2 with different crystal structure: An investigation towards the development of high-performance supercapacitor electrode materials. <i>Journal of Energy Storage</i> , 2020 , 28, 101281	7.8	15
64	Modified electrochemical charge storage properties of h-BN/rGO superlattice through the transition from n to p type semiconductor by fluorine doping. <i>Chemical Engineering Journal</i> , 2018 , 339, 334-345	14.7	15
63	Novel synthesis of a Cu2Ographene nanoplatelet composite through a two-step electrodeposition method for selective detection of hydrogen peroxide. <i>New Journal of Chemistry</i> , 2018 , 42, 3574-3581	3.6	15
62	Efficient reduction of graphene oxide using Tin-powder and its electrochemical performances for use as an energy storage electrode material. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11320	13	15
61	Doping-Assisted Phase Changing Effect on MoS2 Towards Hydrogen Evolution Reaction in Acidic and Alkaline pH. <i>ChemElectroChem</i> , 2020 , 7, 336-346	4.3	15

60	Direct observation of micro delamination in graphene oxide incorporated carbon fiber/epoxy composite via in-situ tensile test. <i>Composites Science and Technology</i> , 2019 , 177, 57-65	8.6	14
59	Tunable electrical conductivity and dielectric properties of triglycine sulfate-polypyrrole composite. <i>Chemical Engineering Journal</i> , 2012 , 187, 334-340	14.7	14
58	Electrochemical functionalization and in-situ deposition of the SAA@rGO/h-BN@Ni electrode for supercapacitor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 52, 321-330	6.3	12
57	Controlled electrodeposition of iron oxide/nickel oxide@Ni for the investigation of the effects of stoichiometry and particle size on energy storage and water splitting applications. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9657-9664	13	12
56	Effects of the reduction of PAni-coated oxidized multiwall carbon nanotubes on the positive temperature coefficient behaviors of their carbon black/high density polyethylene composites. <i>Polymer Testing</i> , 2016 , 50, 83-93	4.5	12
55	Ethylene vinyl acetate/ethylene propylene diene terpolymer-blend-layered double hydroxide nanocomposites. <i>Polymer Engineering and Science</i> , 2009 , 49, 585-591	2.3	12
54	Rheological, Mechanical, and Thermal Properties of Silane Grafted Layered Double Hydroxide/Epoxy Composites. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8729-8739	3.9	11
53	Recent trends in the graphene-based sensors for the detection of hydrogen peroxide. <i>AIMS Materials Science</i> , 2018 , 5, 422-466	1.9	11
52	Electrochemical Detection of HDIJsing Copper Oxide-Reduced Graphene Oxide Heterostructure. Journal of Nanoscience and Nanotechnology, 2019 , 19, 5295-5302	1.3	10
51	Investigation of the capacitive performance of tobacco solution reduced graphene oxide. <i>Materials Chemistry and Physics</i> , 2015 , 151, 72-80	4.4	10
50	Investigation of mechanical and thermal properties of the cetyltrimethylammonium bromide functionalized molybdenum disulfide (MoS2)/epoxy composites. <i>Polymer Bulletin</i> , 2018 , 75, 327-343	2.4	10
49	Spinel-Structured NiCo2O4 Nanorods as Energy Efficient Electrode for Supercapacitor and Lithium Ion Battery Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 9761-9770	1.3	10
48	Efficient Access of Voltammetric Charge in Hybrid Supercapacitor Configured with Potassium Incorporated Nanographitic Structure Derived from Cotton (Gossypium arboreum) as Negative and Ni(OH)2/rGO Composite as Positive Electrode. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	10
47	2016, 55, 11074-11084 Investigation of the surface plasmon polariton and electrochemical properties of covalent and non-covalent functionalized reduced graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 285	588-28	5 9 5
46	Effect of the Solvent Ratio (Ethylene Glycol/Water) on the Preparation of an Iron Sulfide Electrocatalyst and Its Activity towards Overall Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 3199-3208	4.3	9
45	Effect of Thermally Reduced Graphene Oxide on Mechanical Properties of Woven Carbon Fiber/Epoxy Composite. <i>Crystals</i> , 2018 , 8, 111	2.3	9
44	Effect of reactive poly(ethylene glycol) flexible chains on curing kinetics and impact properties of bisphenol-a glycidyl ether epoxy. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2325-2332	2.9	8
43	Electrochemically Preparation of Functionalized Graphene Using Sodium Dodecyl Benzene Sulfonate (SDBS). <i>Advanced Materials Research</i> , 2013 , 747, 246-249	0.5	8

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42	Effect of redox additive in aqueous electrolyte on the high specific capacitance of cation incorporated MnCo2O4@Ni(OH)2 electrode materials for flexible symmetric supercapacitor. <i>Composites Part B: Engineering</i> , 2021 , 215, 108755	10	8
41	Tailoring the bifunctional electrocatalytic activity of electrodeposited molybdenum sulfide/iron oxide heterostructure to achieve excellent overall water splitting. <i>Chemical Engineering Journal</i> , 2021 , 417, 129333	14.7	8
40	Surface modification of reduced graphene oxide through successive ionic layer adsorption and reaction method for redox dominant supercapacitor electrodes. <i>Chemical Engineering Journal</i> , 2017 , 330, 914-925	14.7	7
39	FeNiSx@MoS2 Heterostructure: A Bioinspired Nonprecious Electrocatalyst for the Hydrogen Evolution Reaction in Acidic and Basic Media. <i>ChemElectroChem</i> , 2020 , 7, 3324-3335	4.3	7
38	Effect of Fe3O4-Decorated N-Doped Reduced Graphene Oxide Nanohybrid on the Anticorrosion Performance of Epoxy Composite Coating. <i>ChemistrySelect</i> , 2019 , 4, 13446-13454	1.8	7
37	Colorimetric/naked eye detection of arsenic ions in aqueous medium by mango flower extract: A facile and novel approach. <i>Applied Surface Science</i> , 2020 , 513, 145760	6.7	6
36	Understanding the Synergistic Effect in Oxygen Evolution Reaction Catalysis from Chemical Kinetics Point of View: An Iron Oxide/Nickel Oxide Case Study. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 116514	3.9	6
35	The structureEctivity correlation of bifunctional MnO2 polymorphoric and MoS2-based heterostructures: a highly efficient, robust electrochemical water oxidation and reduction reaction catalyst in alkaline pH. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 1148-1157	5.8	5
34	Optimization of Chemi-adsorption, EDLC, and Redox Capacitance Through Electro-precipitation Synthesis of Fe3O4/NiO@rGO/h-BN for the Development of Hybrid Supercapacitor. <i>ChemistrySelect</i> , 2019 , 4, 589-599	1.8	4
33	Synthesis of Tri-functional Core-shell CuO@carbon Quantum Dots@carbon Hollow Nanospheres Heterostructure for Non-enzymatic H2O2 Sensing and Overall Water Splitting Applications. <i>Electroanalysis</i> , 2019 , 31, 2120-2129	3	4
32	Alteration in electrocatalytic water splitting activity of reduced graphene oxide through simultaneous and individual doping of Lewis acid/base center. <i>Electrochimica Acta</i> , 2020 , 362, 137146	6.7	4
31	Exploration of Mechanical and Thermal Properties of CTAB-Modified MoS2/LLDPE Composites Prepared by Melt Mixing. <i>Journal of Composites Science</i> , 2018 , 2, 37	3	3
30	Graphene and its Nanocomposites for Gas Sensing Applications 2014 , 467-500		3
29	Progress in theoretical and experimental investigation on seawater electrolysis: opportunities and challenges. <i>Sustainable Energy and Fuels</i> ,	5.8	3
28	Influence of Transition Metals (Cu and Co) on the Carbon-Coated Nickel Sulfide Used as Positive Electrode Material in Hybrid Supercapacitor Device. <i>Journal of Composites Science</i> , 2021 , 5, 180	3	3
27	Enhancement of the Electrochemical Performance of a Novel Binder-Free Ni3S2@Co3S4/Mn3O4-RGO Heterostructure through Crystallinity and Band Gap Modification for Flexible Supercapacitors. <i>Energy & Fuels</i> , 2021 , 35, 13389-13401	4.1	3
26	Synthesis of nickel-tin oxide/nitrogen-doped reduced graphene oxide composite for asymmetric supercapacitor device. <i>Chemical Engineering Journal</i> , 2022 , 443, 136453	14.7	3
25	High Performing Hybrid Nanomaterials for Supercapacitor Applications 2017 , 79-145		2

24	Effect of thermally reduced graphene oxide on dynamic mechanical properties of carbon fiber/epoxy composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 338, 012015	0.4	2
23	Surface Modification of Graphene 2013 , 35-86		2
22	Conducting scaffold supported defect rich 3D rGO-CNT/MoS2 nanostructure for efficient HER electrocatalyst at variable pH. <i>Composites Part B: Engineering</i> , 2022 , 230, 109489	10	2
21	Enhanced Mechanical Properties of Functionalized Graphene Oxide/linear Low Density Polyethylene Composites Prepared by Melt Mixing. <i>Composites Research</i> , 2016 , 29, 173-178		2
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