Tapas Kuila

List of Publications by Year in Descending Order

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

#	Paper	IF	Citations
167	Conducting scaffold supported defect rich 3D rGO-CNT/MoS2 nanostructure for efficient HER electrocatalyst at variable pH. *Composites Part B: Engineering*, **2022**, 230, 109489	10	2
166	Minimal lanthanum-doping triggered enhancement in bifunctional water splitting activity of molybdenum oxide/sulfide heterostructure through structural evolution. *Chemical Engineering Journal*, **2022**, 428, 131131	14.7	0
165	Synthesis of nickel-tin oxide/nitrogen-doped reduced graphene oxide composite for asymmetric supercapacitor device. *Chemical Engineering Journal*, **2022**, 443, 136453	14.7	3
164	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. *Composites Part B: Engineering*, **2021**, 215, 108755	10	8
163	Synthesis of iron pyrite with efficient bifunctional electrocatalytic activity towards overall water splitting in alkaline medium. *Bulletin of Materials Science*, **2021**, 44, 1	1.7	2
162	Influence of Transition Metals (Cu and Co) on the Carbon-Coated Nickel Sulfide Used as Positive Electrode Material in Hybrid Supercapacitor Device. *Journal of Composites Science*, **2021**, 5, 180	3	3
161	An account of the strategies to enhance the water splitting efficiency of noble-metal-free electrocatalysts. *Journal of Energy Chemistry*, **2021**, 59, 160-190	12	18
160	Optimization of specific capacitance and water splitting efficiency of N-enriched carbon by incorporating oxides of transition metals via an ancient chemical technique. *Journal of Electroanalytical Chemistry*, **2021**, 880, 114929	4.1	1
159	Polymer nanocomposites for energy-related applications **2021**, 215-248		
158	The structure□activity correlation of bifunctional MnO2 polymorphoric and MoS2-based heterostructures: a highly efficient, robust electrochemical water oxidation and reduction reaction catalyst in alkaline pH. *Sustainable Energy and Fuels*, **2021**, 5, 1148-1157	5.8	5
157	Activation Strategy of MoS as HER Electrocatalyst through Doping-Induced Lattice Strain, Band Gap Engineering, and Active Crystal Plane Design. *ACS Applied Materials & Interfaces*, **2021**, 13, 765-780	9.5	26
156	Enhancement of the Electrochemical Performance of a Novel Binder-Free Ni3S2@Co3S4/Mn3O4-RGO Heterostructure through Crystallinity and Band Gap Modification for Flexible Supercapacitors. *Energy & Fuels*, **2021**, 35, 13389-13401	4.1	3
155	A novel strategy to achieve 2V symmetric supercapacitor using B, N doped rGO as an electrode material in □water in salt based hydrous electrolyte□*Electrochimica Acta*, **2021**, 388, 138571	6.7	1
154	Tailoring the bifunctional electrocatalytic activity of electrodeposited molybdenum sulfide/iron oxide heterostructure to achieve excellent overall water splitting. *Chemical Engineering Journal*, **2021**, 417, 129333	14.7	8
153	Investigation of electrochemical charge storage in nickel-cobalt-selenide/reduced graphene oxide composite electrode and its hybrid supercapacitor device. *Journal of Alloys and Compounds*, **2020**, 835, 155432	5.7	31
152	Colorimetric/naked eye detection of arsenic ions in aqueous medium by mango flower extract: A facile and novel approach. *Applied Surface Science*, **2020**, 513, 145760	6.7	6
151	Alteration in capacitive performance of Sn-decorated MnO2 with different crystal structure: An investigation towards the development of high-performance supercapacitor electrode materials. *Journal of Energy Storage*, **2020**, 28, 101281	7.8	15

150	Manganese (IV) Oxide-Based Supercapacitors **2020**,		
149	Doping-Assisted Phase Changing Effect on MoS2 Towards Hydrogen Evolution Reaction in Acidic and Alkaline pH. *ChemElectroChem*, **2020**, 7, 336-346	4.3	15
148	Alteration in electrocatalytic water splitting activity of reduced graphene oxide through simultaneous and individual doping of Lewis acid/base center. *Electrochimica Acta*, **2020**, 362, 137146	6.7	4
147	Understanding the Synergistic Effect in Oxygen Evolution Reaction Catalysis from Chemical Kinetics Point of View: An Iron Oxide/Nickel Oxide Case Study. *Journal of the Electrochemical Society*, **2020**, 167, 116514	3.9	6
146	Keratin-derived functional carbon with superior charge storage and transport for high-performance supercapacitors. *Carbon*, **2020**, 168, 419-438	10.4	44
145	FeNiSx@MoS2 Heterostructure: A Bioinspired Nonprecious Electrocatalyst for the Hydrogen Evolution Reaction in Acidic and Basic Media. *ChemElectroChem*, **2020**, 7, 3324-3335	4.3	7
144	Investigation of Electrochemical Charge Storage Efficiency of NiCo2Se4/RGO Composites Derived at Varied Duration and Its Asymmetric Supercapacitor Device. *Energy & Fuels*, **2020**, 34, 13056-13066	4.1	23
143	Development of carbon coated NiS2 as positive electrode material for high performance asymmetric supercapacitor. *Composites Part B: Engineering*, **2019**, 177, 107373	10	34
142	Optimization of Chemi-adsorption, EDLC, and Redox Capacitance Through Electro-precipitation Synthesis of Fe3O4/NiO@rGO/h-BN for the Development of Hybrid Supercapacitor. *ChemistrySelect*, **2019**, 4, 589-599	1.8	4
141	Nanolubricants dispersed with graphene and its derivatives: an assessment and review of the tribological performance. *Nanoscale*, **2019**, 11, 3458-3483	7.7	68
140	Anticorrosion Properties of Epoxy Composite Coating Reinforced by Molybdate-Intercalated Functionalized Layered Double Hydroxide. *Journal of Composites Science*, **2019**, 3, 11	3	30
139	Bioinspired silver nanoparticles/reduced graphene oxide nanocomposites for catalytic reduction of 4-nitrophenol, organic dyes and act as energy storage electrode material. *Composites Part B: Engineering*, **2019**, 173, 106924	10	31
138	Effect of Ion Diffusion in Cobalt Molybdenum Bimetallic Sulfide toward Electrocatalytic Water Splitting. *ACS Applied Materials & Interfaces*, **2019**, 11, 21634-21644	9.5	25
137	Effect of the Solvent Ratio (Ethylene Glycol/Water) on the Preparation of an Iron Sulfide Electrocatalyst and Its Activity towards Overall Water Splitting. *ChemElectroChem*, **2019**, 6, 3199-3208	4.3	9
136	Direct observation of micro delamination in graphene oxide incorporated carbon fiber/epoxy composite via in-situ tensile test. *Composites Science and Technology*, **2019**, 177, 57-65	8.6	14
135	Optimization of active surface area of flower like MoS2 using V-doping towards enhanced hydrogen evolution reaction in acidic and basic medium. *Applied Catalysis B: Environmental*, **2019**, 254, 432-442	21.8	104
134	Electrochemical Detection of H□□ Using Copper Oxide-Reduced Graphene Oxide Heterostructure. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 5295-5302	1.3	10
133	Synergistic effect of Fe3O4 anchored N-doped rGO hybrid on mechanical, thermal and electromagnetic shielding properties of epoxy composites. *Composites Part B: Engineering*, **2019**, 166, 371-381	10	34

132	Experimental and numerical investigation on the mechanical characteristics of polyethylenimine functionalized graphene oxide incorporated woven carbon fibre/epoxy composites. *Composites Part B: Engineering*, **2019**, 156, 240-251	10	22
131	Synthesis of Tri-functional Core-shell CuO@carbon Quantum Dots@carbon Hollow Nanospheres Heterostructure for Non-enzymatic H2O2 Sensing and Overall Water Splitting Applications. *Electroanalysis*, **2019**, 31, 2120-2129	3	4
130	Binder-Free Growth of Nickel-Doped Iron Sulfide on Nickel Foam via Electrochemical Deposition for Electrocatalytic Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 18015-18026	8.3	36
129	Nanostructured Carbon-Based Electrodes for Supercapacitor Applications **2019**, 467-520		
128	Analytical and experimental investigation on magnetorheological behavior of CoFe2O4-rGO-incorporated epoxy fluid composites. *Advanced Composites and Hybrid Materials*, **2019**, 2, 266-278	8.7	19
127	Effect of Fe3O4-Decorated N-Doped Reduced Graphene Oxide Nanohybrid on the Anticorrosion Performance of Epoxy Composite Coating. *ChemistrySelect*, **2019**, 4, 13446-13454	1.8	7
126	A SILAR method for the fabrication of layer-by-layer assembled Cu2O-reduced graphene oxide composite for non-enzymatic detection of hydrogen peroxide. *Materials Research Express*, **2019**, 6, 025045	1.7	2
125	Tribological behavior of dodecylamine functionalized graphene nanosheets dispersed engine oil nanolubricants. *Tribology International*, **2019**, 131, 605-619	4.9	38
124	Hierarchical Cobalt Sulfide/Molybdenum Sulfide Heterostructure as Bifunctional Electrocatalyst towards Overall Water Splitting. *ChemElectroChem*, **2019**, 6, 430-438	4.3	29
123	Modified electrochemical charge storage properties of h-BN/rGO superlattice through the transition from n to p type semiconductor by fluorine doping. *Chemical Engineering Journal*, **2018**, 339, 334-345	14.7	15
122	Investigation of the mechanical and thermal properties of l-glutathione modified graphene/epoxy composites. *Composites Part B: Engineering*, **2018**, 143, 105-112	10	25
121	Static and Dynamic Mechanical Properties of Graphene Oxide-Incorporated Woven Carbon Fiber/Epoxy Composite. *Journal of Materials Engineering and Performance*, **2018**, 27, 1138-1147	1.6	27
120	Novel synthesis of a Cu2O□graphene nanoplatelet composite through a two-step electrodeposition method for selective detection of hydrogen peroxide. *New Journal of Chemistry*, **2018**, 42, 3574-3581	3.6	15
119	Interface engineering for the improvement of mechanical and thermal properties of covalent functionalized graphene/epoxy composites. *Journal of Applied Polymer Science*, **2018**, 135, 46124	2.9	28
118	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. *Journal of Materials Chemistry A*, **2018**, 6, 9657-9664	13	12
117	Effect of thermally reduced graphene oxide on dynamic mechanical properties of carbon fiber/epoxy composite. *IOP Conference Series: Materials Science and Engineering*, **2018**, 338, 012015	0.4	2
116	A review on the heterostructure nanomaterials for supercapacitor application. *Journal of Energy Storage*, **2018**, 17, 181-202	7.8	71
115	Investigation of mechanical and thermal properties of the cetyltrimethylammonium bromide functionalized molybdenum disulfide (MoS2)/epoxy composites. *Polymer Bulletin*, **2018**, 75, 327-343	2.4	10

114	One Pot Synthesis of Cu2O-RGO Composite Using Mango Bark Extract for Supercapacitor Application. *Springer Proceedings in Energy*, **2018**, 81-88	0.2	
113	Cobalt Sulfide/Nickel Sulfide Heterostructure Directly Grown on Nickel Foam: An Efficient and Durable Electrocatalyst for Overall Water Splitting Application. *ACS Applied Materials & Interfaces*, **2018**, 10, 27712-27722	9.5	160
112	Effect of Thermally Reduced Graphene Oxide on Mechanical Properties of Woven Carbon Fiber/Epoxy Composite. *Crystals*, **2018**, 8, 111	2.3	9
111	Exploration of Mechanical and Thermal Properties of CTAB-Modified MoS2/LLDPE Composites Prepared by Melt Mixing. *Journal of Composites Science*, **2018**, 2, 37	3	3
110	Effects of hydrazine reduced graphene oxide on the inter-laminar fracture toughness of woven carbon fiber/epoxy composite. *Composites Part B: Engineering*, **2018**, 149, 22-30	10	38
109	Rheological, Mechanical, and Thermal Properties of Silane Grafted Layered Double Hydroxide/Epoxy Composites. *Industrial & Engineering Chemistry Research*, **2018**, 57, 8729-8739	3.9	11
108	Recent trends in the graphene-based sensors for the detection of hydrogen peroxide. *AIMS Materials Science*, **2018**, 5, 422-466	1.9	11
107	Investigation of band structure and electrochemical properties of h-BN/rGO composites for asymmetric supercapacitor applications. *Materials Chemistry and Physics*, **2017**, 190, 153-165	4.4	28
106	Electrochemical functionalization and in-situ deposition of the SAA@rGO/h-BN@Ni electrode for supercapacitor applications. *Journal of Industrial and Engineering Chemistry*, **2017**, 52, 321-330	6.3	12
105	Morphology controlled synthesis of MnCO3/RGO materials and their supercapacitor applications. *Journal of Materials Chemistry A*, **2017**, 5, 12863-12872	13	30
104	High Performing Hybrid Nanomaterials for Supercapacitor Applications **2017**, 79-145		2
103	High Performance Hybrid Filler Reinforced Epoxy Nanocomposites **2017**, 371-422		1
102	A successive ionic layer adsorption and reaction (SILAR) method to fabricate a layer-by-layer (LbL) MnO2-reduced graphene oxide assembly for supercapacitor application. *Journal of Power Sources*, **2017**, 340, 380-392	8.9	43
101	Investigation of the surface plasmon polariton and electrochemical properties of covalent and non-covalent functionalized reduced graphene oxide. *Physical Chemistry Chemical Physics*, **2017**, 19, 28588-28595	3.6	9
100	Surface modification of reduced graphene oxide through successive ionic layer adsorption and reaction method for redox dominant supercapacitor electrodes. *Chemical Engineering Journal*, **2017** , 330, 914-925	14.7	7
99	Functionalized reduced graphene oxide/epoxy composites with enhanced mechanical properties and thermal stability. *Polymer Testing*, **2017**, 63, 1-11	4.5	54
98	Carbon dot stabilized copper sulphide nanoparticles decorated graphene oxide hydrogel for high performance asymmetric supercapacitor. *Carbon*, **2017**, 122, 247-257	10.4	100
97	Facile synthesis of novel sulfonated polyaniline functionalized graphene using m-aminobenzene sulfonic acid for asymmetric supercapacitor application. *Chemical Engineering Journal*, **2017**, 308, 1174-1184	14.7	70

96	Graphene Composites **2016**, 63-111		1
95	Spinel-Structured NiCo2O4 Nanorods as Energy Efficient Electrode for Supercapacitor and Lithium Ion Battery Applications. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 9761-9770	1.3	10
94	Effect of high molecular weight polyethyleneimine functionalized graphene oxide coated polyethylene terephthalate film on the hydrogen gas barrier properties. *Composites Part B: Engineering*, **2016**, 106, 316-323	10	33
93	Superior performance of asymmetric supercapacitor based on reduced graphene oxide□manganese carbonate as positive and sono-chemically reduced graphene oxide as negative electrode materials. *Journal of Power Sources*, **2016**, 303, 222-233	8.9	57
92	Band gap modified boron doped NiO/Fe3O4 nanostructure as the positive electrode for high energy asymmetric supercapacitors. *RSC Advances*, **2016**, 6, 1380-1387	3.7	44
91	One pot synthesis of Cu2O/RGO composite using mango bark extract and exploration of its electrochemical properties. *Electrochimica Acta*, **2016**, 193, 104-115	6.7	37
90	In-situ hydrothermal synthesis of MnO2/NiO@Ni hetero structure electrode for hydrogen evolution reaction and high energy asymmetric supercapacitor applications. *Journal of Energy Storage*, **2016**, 6, 22-31	7.8	43
89	Growth of Ni□Co binary hydroxide on a reduced graphene oxide surface by a successive ionic layer adsorption and reaction (SILAR) method for high performance asymmetric supercapacitor electrodes. *Journal of Materials Chemistry A*, **2016**, 4, 2188-2197	13	80
88	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. *Polymer Testing*, **2016**, 50, 83-93	4.5	12
87	Electromagnetic interference shielding and thermal properties of non-covalently functionalized reduced graphene oxide/epoxy composites. *AIMS Materials Science*, **2016**, 4, 61-74	1.9	23
86	Enhanced Mechanical Properties of Functionalized Graphene Oxide/linear Low Density Polyethylene Composites Prepared by Melt Mixing. *Composites Research*, **2016**, 29, 173-178		2
85	Development of Cobalt Sulfide-graphene Composite for Supercapacitor Applications. *Composites Research*, **2016**, 29, 167-172		
84	Self Charging Sulfanilic Acid Azocromotrop/Reduced Graphene Oxide Decorated Nickel Oxide/Iron Oxide Solar Supercapacitor for Energy Storage Application. *Composites Research*, **2016**, 29, 179-185		
83	Effect of Dodecyal Amine Functionalized Graphene on the Mechanical and Thermal Properties of Epoxy-Based Composites. *Polymer Engineering and Science*, **2016**, 56, 1221-1228	2.3	22
82	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. *Industrial & Engineering Chemistry Research*, **2016**, 55, 11074-11084	3.9	10
81	Facile preparation of flower-like NiCo 2 O 4 /three dimensional graphene foam hybrid for high performance supercapacitor electrodes. *Carbon*, **2015**, 89, 328-339	10.4	120
80	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. *Journal of Materials Chemistry A*, **2015**, 3, 19461-19468	13	17
79	Electrochemical performance of reduced graphene oxide surface-modified with 9-anthracene carboxylic acid. *RSC Advances*, **2015**, 5, 6443-6451	3.7	27

78	N-doped carbon layer coated thermally exfoliated graphene and its capacitive behavior in redox active electrolyte. *Carbon*, **2015**, 85, 60-71	10.4	43
77	Investigation of the capacitive performance of tobacco solution reduced graphene oxide. *Materials Chemistry and Physics*, **2015**, 151, 72-80	4.4	10
76	Graphene/Conjugated Polymer Nanocomposites for Optoelectronic and Biological Applications **2015**, 229-279		1
75	Non-covalent functionalization of reduced graphene oxide using sulfanilic acid azocromotrop and its application as a supercapacitor electrode material. *Journal of Materials Chemistry A*, **2015**, 3, 7323-7331	13	103
74	Preparation of reduced graphene oxide-NiFe 2 O 4 nanocomposites for the electrocatalytic oxidation of hydrazine. *Composites Part B: Engineering*, **2015**, 79, 649-659	10	62
73	Band Gap Engineering of Boron Nitride by Graphene and Its Application as Positive Electrode Material in Asymmetric Supercapacitor Device. *ACS Applied Materials & Interfaces*, **2015**, 7, 14211-22	9.5	100
72	Recent advances in graphene and its metal-oxide hybrid nanostructures for lithium-ion batteries. *Nanoscale*, **2015**, 7, 4820-68	7.7	152
71	Development of high energy density supercapacitor through hydrothermal synthesis of RGO/nano-structured cobalt sulphide composites. *Nanotechnology*, **2015**, 26, 075402	3.4	27
70	Hydrothermal synthesis of Fe3O4/RGO composites and investigation of electrochemical performances for energy storage applications. *RSC Advances*, **2014**, 4, 44777-44785	3.7	48
69	Enhanced mechanical properties of a multiwall carbon nanotube attached pre-stitched graphene oxide filled linear low density polyethylene composite. *Journal of Materials Chemistry A*, **2014**, 2, 2681-2689	13	38
68	Effects of surface-modified silica nanoparticles attached graphene oxide using isocyanate-terminated flexible polymer chains on the mechanical properties of epoxy composites. *Journal of Materials Chemistry A*, **2014**, 2, 10557-10567	13	63
67	7,7,8,8-Tetracyanoquinodimethane-assisted one-step electrochemical exfoliation of graphite and its performance as an electrode material. *Nanoscale*, **2014**, 6, 4864-73	7.7	37
66	Covalent surface modification of chemically derived graphene and its application as supercapacitor electrode material. *Physical Chemistry Chemical Physics*, **2014**, 16, 7618-26	3.6	79
65	Bio-reduction of graphene oxide using drained water from soaked mung beans (Phaseolus aureus L.) and its application as energy storage electrode material. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2014**, 186, 33-40	3.1	80
64	Simultaneous reduction, exfoliation, and nitrogen doping of graphene oxide via a hydrothermal reaction for energy storage electrode materials. *Carbon*, **2014**, 69, 66-78	10.4	139
63	Effects of acid vapour mediated oxidization on the electrochemical performance of thermally exfoliated graphene. *Carbon*, **2014**, 74, 195-206	10.4	23
62	Graphene and its Nanocomposites for Gas Sensing Applications **2014**, 467-500		3
61	Polymer-Layered Silicate Nanocomposite Membranes for Fuel Cell Application **2014**, 481-509		0

60	Recent advances in application of biosensors in tissue engineering. *BioMed Research International*, **2014**, 2014, 307519	3	94
59	Graphene-Based Materials for Energy Storage Applications. *World Scientific Series on Carbon Nanoscience*, **2014**, 1-49	0.5	
58	Enhanced properties of aryl diazonium salt-functionalized graphene/poly(vinyl alcohol) composites. *Chemical Engineering Journal*, **2014**, 245, 311-322	14.7	40
57	Enhanced mechanical properties of silanized silica nanoparticle attached graphene oxide/epoxy composites. *Composites Science and Technology*, **2013**, 79, 115-125	8.6	281
56	Effects of covalent surface modifications on the electrical and electrochemical properties of graphene using sodium 4-aminoazobenzene-4?-sulfonate. *Carbon*, **2013**, 54, 310-322	10.4	54
55	Efficient reduction of graphene oxide using Tin-powder and its electrochemical performances for use as an energy storage electrode material. *Journal of Materials Chemistry A*, **2013**, 1, 11320	13	15
54	Effects of reduction and polystyrene sulfate functionalization on the capacitive behaviour of thermally exfoliated graphene. *Journal of Materials Chemistry A*, **2013**, 1, 5892	13	32
53	Effects of processing conditions of poly(methylmethacrylate) encapsulated liquid curing agent on the properties of self-healing composites. *Composites Part B: Engineering*, **2013**, 49, 6-15	10	105
52	Surface Modification of Graphene **2013**, 35-86		2
51	Preparation of sulfonated poly(ether□ether□ketone) functionalized ternary graphene/AuNPs/chitosan nanocomposite for efficient glucose biosensor. *Process Biochemistry*, **2013**, 48, 1724-1735	4.8	46
50	One-step electrochemical synthesis of 6-amino-4-hydroxy-2-napthalene-sulfonic acid functionalized graphene for green energy storage electrode materials. *Nanotechnology*, **2013**, 24, 365706	3.4	30
49	Effects of sodium hydroxide on the yield and electrochemical performance of sulfonated poly(ether-ether-ketone) functionalized graphene. *Journal of Materials Chemistry A*, **2013**, 1, 9294	13	31
48	In situ synthesis of the reduced graphene oxide□polyethyleneimine composite and its gas barrier properties. *Journal of Materials Chemistry A*, **2013**, 1, 3739	13	192
47	Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. *Nanoscale*, **2013**, 5, 52-71	7.7	392
46	Simultaneous reduction, functionalization and stitching of graphene oxide with ethylenediamine for composites application. *Journal of Materials Chemistry A*, **2013**, 1, 1349-1358	13	178
45	Effects of hybrid carbon fillers of polymer composite bipolar plates on the performance of direct methanol fuel cells. *Composites Part B: Engineering*, **2013**, 51, 98-105	10	31
44	Electrostatically assembled layer-by-layer composites containing graphene oxide for enhanced hydrogen gas barrier application. *Composites Science and Technology*, **2013**, 89, 167-174	8.6	45
43	Effects of various surfactants on the dispersion stability and electrical conductivity of surface modified graphene. *Journal of Alloys and Compounds*, **2013**, 562, 134-142	5.7	72

42	Micro-crack behavior of carbon fiber reinforced thermoplastic modified epoxy composites for cryogenic applications. *Composites Part B: Engineering*, **2013**, 44, 533-539	10	58
41	Tin-Powder Mediated Facile Route for the Reduction of Graphene Oxide. *Advanced Materials Research*, **2013**, 747, 238-241	0.5	
40	Electrochemically Preparation of Functionalized Graphene Using Sodium Dodecyl Benzene Sulfonate (SDBS). *Advanced Materials Research*, **2013**, 747, 246-249	0.5	8
39	Effect of peptizer on the properties of Nafion□aponite clay nanocomposite membranes for polymer electrolyte membrane fuel cells. *Journal of Membrane Science*, **2012**, 389, 316-323	9.6	23
38	Chemical functionalization of graphene and its applications. *Progress in Materials Science*, **2012**, 57, 1061-1105	42.0	1351
37	Effect of functionalized graphene on the physical properties of linear low density polyethylene nanocomposites. *Polymer Testing*, **2012**, 31, 31-38	4.5	164
36	Functionalized-graphene/ethylene vinyl acetate co-polymer composites for improved mechanical and thermal properties. *Polymer Testing*, **2012**, 31, 282-289	4.5	102
35	Material selection windows for hybrid carbons/poly(phenylene sulfide) composite for bipolar plates of fuel cell. *Polymer Testing*, **2012**, 31, 537-545	4.5	29
34	Silicate-based polymer-nanocomposite membranes for polymer electrolyte membrane fuel cells. *Progress in Polymer Science*, **2012**, 37, 842-869	29.6	161
33	Effect of reactive poly(ethylene glycol) flexible chains on curing kinetics and impact properties of bisphenol-a glycidyl ether epoxy. *Journal of Applied Polymer Science*, **2012**, 124, 2325-2332	2.9	8
32	Electrochemically exfoliated graphene using 9-anthracene carboxylic acid for supercapacitor application. *Journal of Materials Chemistry*, **2012**, 22, 24403		79
31	Protic ionic liquid-functionalized mesoporous silica-based hybrid membranes for proton exchange membrane fuel cells. *Journal of Materials Chemistry*, **2012**, 22, 24366		43
30	Dual role of glycine as a chemical functionalizer and a reducing agent in the preparation of graphene: an environmentally friendly method. *Journal of Materials Chemistry*, **2012**, 22, 9696		191
29	Facile method for the preparation of water dispersible graphene using sulfonated poly(ether-ether-ketone) and its application as energy storage materials. *Langmuir*, **2012**, 28, 9825-33	4	76
28	Carbon-based nanostructured materials and their composites as supercapacitor electrodes. *Journal of Materials Chemistry*, **2012**, 22, 767-784		579
27	A green approach for the reduction of graphene oxide by wild carrot root. *Carbon*, **2012**, 50, 914-921	10.4	286
26	Simultaneous bio-functionalization and reduction of graphene oxide by baker's yeast. *Chemical Engineering Journal*, **2012**, 183, 526-533	14.7	210
25	Tunable electrical conductivity and dielectric properties of triglycine sulfate-polypyrrole composite. *Chemical Engineering Journal*, **2012**, 187, 334-340	14.7	14

24	Preparation of non-covalently functionalized graphene using 9-anthracene carboxylic acid. *Nanotechnology*, **2011**, 22, 405603	3.4	43
23	Preparation of water-dispersible graphene by facile surface modification of graphite oxide. *Nanotechnology*, **2011**, 22, 305710	3.4	82
22	Electrochemical performance of a graphene-polypyrrole nanocomposite as a supercapacitor electrode. *Nanotechnology*, **2011**, 22, 295202	3.4	132
21	Electrochemical performance of a graphene-polypyrrole nanocomposite as a supercapacitor electrode. *Nanotechnology*, **2011**, 22, 369502	3.4	19
20	Characterization and properties of in situ emulsion polymerized poly(methyl methacrylate)/graphene nanocomposites. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 1856-1861	8.4	140
19	Recent advances in graphene-based biosensors. *Biosensors and Bioelectronics*, **2011**, 26, 4637-48	11.8	1025
18	Lipase-catalyzed synthesis and characterization of biodegradable polyester containing l-malic acid unit in solvent system. *Journal of Applied Polymer Science*, **2011**, 120, 1114-1120	2.9	27
17	Preparation and Characterization of High Performance LLDPE/Graphene Nanocomposites. *Advanced Materials Research*, **2011**, 410, 152-155	0.5	1
16	Efficient synthesis of graphene sheets using pyrrole as a reducing agent. *Carbon*, **2011**, 49, 3497-3502	10.4	175
15	Preparation of functionalized graphene/linear low density polyethylene composites by a solution mixing method. *Carbon*, **2011**, 49, 1033-1037	10.4	282
14	Polymer membranes for high temperature proton exchange membrane fuel cell: Recent advances and challenges. *Progress in Polymer Science*, **2011**, 36, 813-843	29.6	669
13	Preparation and Characterization of Functionalized Graphene/Linear Low Density Polyethylene Nanocomposites. *Advanced Materials Research*, **2010**, 123-125, 173-176	0.5	
12	In-situ synthesis and characterization of electrically conductive polypyrrole/graphene nanocomposites. *Polymer*, **2010**, 51, 5921-5928	3.9	417
11	Rubber/LDH nanocomposites by solution blending. *Journal of Applied Polymer Science*, **2009**, 111, 635-642	2.9	34
10	Synthesis and characterization of polyurethane/Mg-Al layered double hydroxide nanocomposites. *Journal of Applied Polymer Science*, **2009**, 114, 2691-2699	2.9	56
9	Ethylene vinyl acetate/Mg-Al LDH nanocomposites by solution blending. *Polymer Composites*, **2009**, 30, 497-502	3	16
8	Ethylene vinyl acetate/ethylene propylene diene terpolymer-blend-layered double hydroxide nanocomposites. *Polymer Engineering and Science*, **2009**, 49, 585-591	2.3	12
7	Effect of layered silicate on EPDM/EVA blend nanocomposite: Dynamic mechanical, thermal, and swelling properties. *Polymer Composites*, **2008**, 29, 443-450	3	28

6	Effect of vinyl acetate content on the mechanical and thermal properties of ethylene vinyl acetate/MgAl layered double hydroxide nanocomposites. *Journal of Applied Polymer Science*, **2008**, 108, 1329-1335	2.9	36
5	Thermoplastic polyolefin based polymer blend-layered double hydroxide nanocomposites. *Composites Science and Technology*, **2008**, 68, 3234-3239	8.6	60
4	Synthesis and characterization of ethylene vinyl acetate/MgAl layered double hydroxide nanocomposites. *Journal of Applied Polymer Science*, **2007**, 104, 1845-1851	2.9	36
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