

Sundara Ramaprabhu

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.

369
papers

14,786
citations

64
h-index

108
g-index

389
ext. papers

16,272
ext. citations

5.2
avg, IF

7.35
L-index

#	Paper	IF	Citations
369	High Areal Capacitance of Flexible Supercapacitors Fabricated with Carbon Cloth-Carbon Fiber-TiO ₂ Electrodes and Different Hydrogel Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 020514	3.9	
368	Multifunctional high entropy oxides incorporated functionalized biowaste derived activated carbon for electrochemical energy storage and desalination. <i>Electrochimica Acta</i> , 2022 , 405, 139828	6.7	0
367	Tribological study of iron infused carbon tubes additive in gearbox, engine, and vegetable-based lubricants. <i>Tribology International</i> , 2022 , 171, 107538	4.9	0
366	Proton-Conducting Polymer Wrapped Cathode Catalyst for Enhancing Triple-Phase Boundaries in Proton Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2022 , 5, 627-638	6.1	1
365	Effect of Coordinated Solvent Molecules in Cu-MOF on Enzyme Free Sensing of Glucose and Lactate in Physiological pH. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 057524	3.9	0
364	Biomass derived phosphorous containing porous carbon material for hydrogen storage and high-performance supercapacitor applications. <i>Journal of Energy Storage</i> , 2021 , 35, 102185	7.8	17
363	Biomass derived hierarchically porous carbon inherent structure as an effective metal free cathode for Li-O ₂ /air battery. <i>Electrochemical Science Advances</i> , 2021 , 1, e202000037		1
362	Graphitic Carbon Nitride Causes Widespread Global Molecular Changes in Epithelial and Fibroblast Cells. <i>ACS Omega</i> , 2021 , 6, 9368-9380	3.9	
361	Insights into the effect of polymer functionalization of multiwalled carbon nanotubes in the design of flexible strain sensor. <i>Sensors and Actuators A: Physical</i> , 2021 , 322, 112605	3.9	6
360	Platinum Nanoparticle Decorated Expired Drug-Derived N-Doped Ketjenblack Carbon as Efficient Catalyst for PEM Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 064517	3.9	1
359	Facile synthesis and electrochemical properties of Fe ₂ O ₃ nanoparticles/etched carbon nanotube composites as anode for lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2021 , 267, 124664	4.4	2
358	Large-scale single-step synthesis of wrinkled N ₂ doped 3D graphene like nanosheets from Tender palm shoots for high energy density supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 403-415	6.7	11
357	Retracting interphasial stored Li ions by transition metal/metal carbide nanoparticles for enhanced Li ion storage capacity. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 1213-1222	9.3	3
356	TiO ₂ nanoparticle embedded nitrogen doped electrospun helical carbon nanofiber-carbon nanotube hybrid anode for lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 2464-2478	6.7	8
355	Absorption-enhanced EMI shielding using silver decorated three-dimensional porous architected reduced graphene oxide in polybenzoxazine composites. <i>New Journal of Chemistry</i> , 2021 , 45, 16939-16948	3.6	2
354	Nitrogen-Containing Tubular Hollow Carbon Frameworks: A Nongraphitic Carbon for a Robust Room Temperature Hydrogen Gas Sensing Application 2021 , 5, 1-4		
353	Hydrothermal synthesis of single-walled carbon nanotubes/TiO ₂ for quasi-solid-state composite-type symmetric hybrid supercapacitors. <i>Journal of Energy Storage</i> , 2021 , 40, 102794	7.8	10

352	Graphene supported MgNi alloy nanocomposite as a room temperature hydrogen storage material [Experiments and theoretical insights. <i>Acta Materialia</i> , 2021 , 215, 117040	8.4	4
351	Graphdiyne A Two-Dimensional Cathode for Aluminum Dual-Ion Batteries with High Specific Capacity and Diffusivity. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7786-7799	6.1	1
350	PPy coated on SiO ₂ encapsulated porous carbon nanofibers as a potential anode material for high rate capable and long-life Li-ion battery. <i>Materials Letters</i> , 2021 , 298, 130029	3.3	3
349	Waterproof Flexible Polymer-Functionalized Graphene-Based Piezoresistive Strain Sensor for Structural Health Monitoring and Wearable Devices. <i>ACS Omega</i> , 2020 , 5, 12682-12691	3.9	12
348	Core-shell Cathode Design with Molybdenum Trioxide as the Electrocatalytic Trapping Layer for High-Energy Density Room-Temperature Sodium Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7615-7623	3.8	14
347	In situ nitrogen-doped, defect-induced carbon nanotubes as an efficient anode for sodium-ion batteries. <i>Nanotechnology</i> , 2020 , 31, 235403	3.4	4
346	Role of Defects in Low-Cost Perovskite Catalysts toward ORR and OER in Lithium-Oxygen Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1338-1348	6.1	23
345	Design of porous calcium phosphate based gel polymer electrolyte for Quasi-solid state sodium ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 859, 113864	4.1	9
344	Redox-active polymer hydrogel electrolyte in biowaste-derived microporous carbon-based high capacitance and energy density ultracapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 870, 114236	4.1	8
343	Optimizing metal-support interphase for efficient fuel cell oxygen reduction reaction catalyst. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 439-448	9.3	6
342	Facile synthesis of heteroatom doped and undoped graphene quantum dots as active materials for reversible lithium and sodium ions storage. <i>Applied Surface Science</i> , 2020 , 504, 144430	6.7	22
341	Strongly coupled sulfur nanoparticles on graphene-carbon nanotube hybrid electrode for multifunctional sodium and aluminium ion storage. <i>Journal of Alloys and Compounds</i> , 2020 , 818, 152864	5.7	5
340	Mechanically stable and economically viable polyvinyl alcohol-based membranes with sulfonated carbon nanotubes for proton exchange membrane fuel cells. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1372-1382	5.8	11
339	Diatom frustule-graphene based nanomaterial for room temperature hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 764-773	6.7	9
338	Comprehensive structural and magnetic properties of iron oxide nanoparticles synthesized through chemical routes. <i>Journal of Alloys and Compounds</i> , 2020 , 818, 152931	5.7	7
337	Enhancing polysulfide confinement and redox kinetics by electrocatalytic interlayer for highly stable lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2020 , 362, 137035	6.7	9
336	In situ reduction of graphitic oxide by amorphization of magnesium diboride for the superior thermo-optical property based nanofluid applications. <i>Materials Today Chemistry</i> , 2020 , 18, 100354	6.2	
335	Diatom-frustule catalyst supported multiwalled carbon nanotubes: Scalable and cost-effective synthesis and stable anode for lithium-ion battery. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020 , 261, 114695	3.1	3

334	Synergy between Interconnected Porous Carbon-Sulfur Cathode and Metallic MgB Interlayer as a Lithium Polysulfide Immobilizer for High-Performance Lithium-Sulfur Batteries. <i>ACS Omega</i> , 2020 , 5, 22379-22388	3.9	1
333	Analysis of crosslinked polyvinyl alcohol membranes with silica fillers in polymer electrolyte membrane fuel cells. <i>Materials Research Express</i> , 2019 , 6, 105526	1.7	4
332	A modified bulge test for in-situ study of ionic permeation properties of membranes under continuously tunable, uniform pressure. <i>Review of Scientific Instruments</i> , 2019 , 90, 073906	1.7	
331	Nonprecious Catalyst for Three-Phase Contact in a Proton Exchange Membrane CO Conversion Full Cell For Efficient Electrochemical Reduction of Carbon Dioxide. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40432-40442	9.5	6
330	1D-2D integrated hybrid carbon nanostructure supported bimetallic alloy catalyst for ethanol oxidation and oxygen reduction reactions. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4951-4961	6.7	9
329	Designed self-assembly of iron encapsulated doped porous carbon as durable electrocatalyst for oxygen reduction reaction in alkaline medium. <i>Carbon</i> , 2019 , 152, 616-630	10.4	3
328	Synthesis of titanium carbide nanoparticles by wire explosion process and its application in carbon dioxide adsorption. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 645-653	5.7	7
327	Polar Bilayer Cathode for Advanced Lithium Sulfur Battery: Synergy Between Polysulfide Conversion and Confinement. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10777-10787	3.8	11
326	An efficient electrode material for high performance solid-state hybrid supercapacitors based on a Cu/CuO/porous carbon nanofiber/TiO hybrid composite. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 781-793	3	27
325	Synergy between partially exfoliated carbon nanotubes-sulfur cathode and nitrogen rich dual function interlayer for high performance lithium sulfur battery. <i>Carbon</i> , 2019 , 147, 364-376	10.4	23
324	Highly efficient and ORR active platinum-scandium alloy-partially exfoliated carbon nanotubes electrocatalyst for Proton Exchange Membrane Fuel Cell. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10951-10963	6.7	23
323	Green synthesis of nitrogen-doped self-assembled porous carbon-metal oxide composite towards energy and environmental applications. <i>Scientific Reports</i> , 2019 , 9, 5187	4.9	24
322	N-doped 3D porous carbon-graphene/polyaniline hybrid and N-doped porous carbon coated gC3N4 nanosheets for excellent energy density asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2019 , 305, 264-277	6.7	31
321	Investigation of room temperature hydrogen storage in biomass derived activated carbon. <i>Journal of Alloys and Compounds</i> , 2019 , 789, 800-804	5.7	27
320	Green Approach for Synthesizing Three Different Carbon Microstructures from a Single Biowaste Bombax malabaricum for Fully Biocompatible Flexible Supercapacitors and Their Performance in Various Electrolytes. <i>ACS Omega</i> , 2019 , 4, 6399-6410	3.9	9
319	Ion percolation through annealed, supported graphene oxide films: Role of nanochannels and voids. <i>Journal of Applied Physics</i> , 2019 , 125, 144304	2.5	1
318	High Entropy Oxides-A Cost-Effective Catalyst for the Growth of High Yield Carbon Nanotubes and Their Energy Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30846-30857	9.5	32
317	Copper nanoparticles incorporated porous carbon nanofibers as a freestanding binder-free electrode for symmetric supercapacitor with enhanced electrochemical performance. <i>Materials Research Express</i> , 2019 , 6, 105005	1.7	11

316	A room temperature multivalent rechargeable iron ion battery with an ether based electrolyte: a new type of post-lithium ion battery. <i>Chemical Communications</i> , 2019 , 55, 10416-10419	5.8	9
315	Probing permeation of energetic hydrogen atoms through molybdenum disulphide on graphene platform. <i>Materials Research Express</i> , 2019 , 6, 095614	1.7	
314	Repelling Polysulfides Using White Graphite Introduced Polymer Membrane as a Shielding Layer in Ambient Temperature Sodium Sulfur Battery. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901497	4.6	6
313	Carbon nanotube bottles for incorporation, release and enhanced cytotoxic effect of cisplatin. <i>Carbon</i> , 2019 , 50, 1625-1634	10.4	73
312	Strong Surface Bonding of Polysulfides by Teflonized Carbon Matrix for Enhanced Performance in Room Temperature Sodium-Sulfur Battery. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801873	4.6	24
311	Magnesium oxide modified nitrogen-doped porous carbon composite as an efficient candidate for high pressure carbon dioxide capture and methane storage. <i>Journal of Colloid and Interface Science</i> , 2019 , 539, 245-256	9.3	15
310	Barium Titanate-Based Porous Ceramic Flexible Membrane as a Separator for Room-Temperature Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3889-3896	9.5	19
309	Green synthesis of transition metal nanocrystals encapsulated into nitrogen-doped carbon nanotubes for efficient carbon dioxide capture. <i>Carbon</i> , 2019 , 141, 692-703	10.4	33
308	High-performance Platinum-free oxygen reduction reaction and hydrogen oxidation reaction catalyst in polymer electrolyte membrane fuel cell. <i>Scientific Reports</i> , 2018 , 8, 3591	4.9	58
307	Performance of Partially Exfoliated Nitrogen-Doped Carbon Nanotubes Wrapped with Hierarchical Porous Carbon in Electrolytes. <i>ChemSusChem</i> , 2018 , 11, 1664-1677	8.3	17
306	Enhanced hydrogen storage performance in Pd ₃ Co decorated nitrogen/boron doped graphene composites. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 8018-8025	6.7	16
305	Multilayer graphene as an effective corrosion protection coating for copper 2018 ,		1
304	Few layer graphene wrapped mixed phase TiO ₂ nanofiber as a potential electrode material for high performance supercapacitor applications. <i>Applied Surface Science</i> , 2018 , 444, 414-422	6.7	19
303	Enhanced Sodium Ion Storage in Interlayer Expanded Multiwall Carbon Nanotubes. <i>Nano Letters</i> , 2018 , 18, 5688-5696	11.5	34
302	Carbon Dioxide Adsorption of Zinc Oxide Nanoparticles Synthesized by Wire Explosion Technique. <i>INAE Letters</i> , 2018 , 3, 197-202	0.7	8
301	Room temperature hydrogen gas sensing properties of mono dispersed platinum nanoparticles on graphene-like carbon-wrapped carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16421-16429	6.7	12
300	Synergistic Role of Electrolyte and Binder for Enhanced Electrochemical Storage for Sodium-Ion Battery. <i>ACS Omega</i> , 2018 , 3, 9945-9955	3.9	12
299	An experimental study on thermal conductivity enhancement of DI water-EG based ZnO(CuO)/graphene wrapped carbon nanotubes nanofluids. <i>Thermochimica Acta</i> , 2018 , 666, 75-81	2.9	24

298	One-pot environment-friendly synthesis of boron doped graphene-SnO ₂ for anodic performance in Li ion battery. <i>Carbon</i> , 2018 , 127, 627-635	10.4	62
297	Chemical Simultaneous Synthesis Strategy of Two Nitrogen-Rich Carbon Nanomaterials for All-Solid-State Symmetric Supercapacitor. <i>ACS Omega</i> , 2018 , 3, 17276-17286	3.9	9
296	Chemical Vapor Deposition-Grown Nickel-Encapsulated N-Doped Carbon Nanotubes as a Highly Active Oxygen Reduction Reaction Catalyst without Direct Metal-Nitrogen Coordination. <i>ACS Omega</i> , 2018 , 3, 13609-13620	3.9	11
295	Catalytic performance of non-platinum-based hybrid carbon hetero-structure for oxygen reduction and hydrogen oxidation reactions in proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18477-18487	6.7	13
294	Cavity induced fluorescence enhancement of graphitic carbon nitride submicron flakes. <i>Materials Research Express</i> , 2017 , 4, 015015	1.7	1
293	1D-2D carbon heterostructure with low Pt loading as a superior cathode electrode for dye-sensitized solar cell. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	5
292	Solar synthesized tin oxide nanoparticles dispersed on graphene wrapped carbon nanotubes as a Li ion battery anode material with improved stability. <i>RSC Advances</i> , 2017 , 7, 13789-13797	3.7	12
291	Highly sensitive and selective non enzymatic electrochemical glucose sensors based on Graphene Oxide-Molecular Imprinted Polymer. <i>Materials Science and Engineering C</i> , 2017 , 78, 124-129	8.3	32
290	Theoretical Insights into the Experimental Observation of Stable p-Type Conductivity and Ferromagnetic Ordering in Vacuum-Hydrogenated TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14359-14366	3.8	7
289	Application of Few-Layered Reduced Graphene Oxide Nanofluid as a Working Fluid for Direct Absorption Solar Collectors. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1233-239	1.3	9
288	Superior photocatalytic performance of graphene wrapped anatase/rutile mixed phase TiO ₂ nanofibers synthesized by a simple and facile route. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 494-503	6.8	28
287	Binary reaction ingrained high current density and long cycle life novel anode material for lithium ion battery. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2784-2791	13	5
286	Recent advances in hydrogen storage using catalytically and chemically modified graphene nanocomposites. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22897-22912	13	51
285	An efficient and durable novel catalyst support with superior electron-donating properties and fuel diffusivity for a direct methanol fuel cell. <i>Catalysis Science and Technology</i> , 2017 , 7, 5079-5091	5.5	14
284	Palladium-nitrogen coordinated cobalt alloy towards hydrogen oxidation and oxygen reduction reactions with high catalytic activity in renewable energy generations of proton exchange membrane fuel cell. <i>Applied Energy</i> , 2017 , 208, 37-48	10.7	26
283	Electrospun nanoporous TiO ₂ nanofibers wrapped with reduced graphene oxide for enhanced and rapid lithium-ion storage. <i>Materials Characterization</i> , 2017 , 131, 64-71	3.9	20
282	High-pressure investigation of ionic functionalized graphitic carbon nitride nanostructures for CO ₂ capture. <i>Journal of CO₂ Utilization</i> , 2017 , 21, 89-99	7.6	25
281	Tri-iodide reduction activity of ultra-small size PtFe nanoparticles supported nitrogen-doped graphene as counter electrode for dye-sensitized solar cell. <i>Journal of Colloid and Interface Science</i> , 2017 , 488, 309-316	9.3	30

280	Nitrogen and sulfur co-doped porous carbon is an efficient electrocatalyst as platinum or a hoax for oxygen reduction reaction in acidic environment PEM fuel cell?. <i>Energy</i> , 2017 , 119, 1075-1083	7.9	31
279	Modified graphene based molecular imprinted polymer for electrochemical non-enzymatic cholesterol biosensor. <i>European Polymer Journal</i> , 2017 , 86, 106-116	5.2	48
278	Development of a nitrogen-doped 2D material for tribological applications in the boundary-lubrication regime. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1476-1483	3	16
277	Metal-semiconductor core-shell nanomaterials for energy applications 2017 , 99-132		1
276	Investigation of oxygen reduction and methanol oxidation reaction activity of PtAu nano-alloy on surface modified porous hybrid nanocarbon supports. <i>Materials Research Express</i> , 2016 , 3, 095017	1.7	2
275	Oxygen reduction reaction activity of platinum nanoparticles decorated nitrogen doped carbon in proton exchange membrane fuel cell under real operating conditions. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 13163-13170	6.7	17
274	Amine-rich ionic liquid grafted graphene for sub-ambient carbon dioxide adsorption. <i>RSC Advances</i> , 2016 , 6, 3032-3040	3.7	13
273	Investigation of the role of Cu2O beads over the wrinkled graphene as an anode material for lithium ion battery. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3974-3980	6.7	20
272	Control over the charge transfer in dye-nanoparticle decorated graphene. <i>Chemical Physics Letters</i> , 2016 , 644, 176-182	2.5	5
271	Enzyme-less and low-potential sensing of glucose using a glassy carbon electrode modified with palladium nanoparticles deposited on graphene-wrapped carbon nanotubes. <i>Mikrochimica Acta</i> , 2016 , 183, 1055-1062	5.8	28
270	Investigation of catalytic activity towards oxygen reduction reaction of Pt dispersed on boron doped graphene in acid medium. <i>Journal of Colloid and Interface Science</i> , 2016 , 479, 260-270	9.3	24
269	Investigation of Electrocatalytic Activity of Pt Alloy Nanoparticles Dispersed on Nitrogen Doped Graphene for Proton Exchange Membrane Fuel Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 9642-9650	1.3	2
268	Thermo-optical properties of partially unzipped multiwalled carbon nanotubes dispersed nanofluids for direct absorption solar thermal energy systems. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 117-125	6.4	47
267	Palladium Cobalt Alloy Catalyst Nanoparticles Facilitated Enhanced Hydrogen Storage Performance of Graphitic Carbon Nitride. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9612-9618	3.8	15
266	One-step in situ hydrothermal preparation of graphene/BnO2 nanohybrid for superior dopamine detection. <i>Journal of Applied Electrochemistry</i> , 2016 , 46, 1187-1197	2.6	12
265	Nanostructured palladium modified graphitic carbon nitride High performance room temperature hydrogen sensor. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 20779-20786	6.7	37
264	Graphitic Carbon Nitride Hybrid Supported Metal Nanoparticles as a Novel Low-Cost Counter Electrode for Dye-Sensitized Solar Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 9583-9590 ^{1,3}		11
263	Electrochemical catalytic activity study of nitrogen-containing hierarchically porous carbon and its application in dye-sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 96109-96120	3.7	8

262	Platinum decorated on partially exfoliated multiwalled carbon nanotubes as high performance cathode catalyst for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 9435-9443	6.7	17
261	Iron encapsulated nitrogen and sulfur co-doped few layer graphene as a non-precious ORR catalyst for PEMFC application. <i>RSC Advances</i> , 2015 , 5, 66494-66501	3.7	22
260	Enhanced electrochemical performance by unfolding a few wings of graphene nanoribbons of multiwalled carbon nanotubes as an anode material for Li ion battery applications. <i>Nanoscale</i> , 2015 , 7, 13379-86	7.7	20
259	Platinum on boron doped graphene as cathode electrocatalyst for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10251-10261	6.7	37
258	Platinum and platinum-iron alloy nanoparticles dispersed nitrogen-doped graphene as high performance room temperature hydrogen sensor. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10346-10353	6.7	23
257	Sub-ambient carbon dioxide adsorption properties of nitrogen doped graphene. <i>Journal of Applied Physics</i> , 2015 , 117, 144301	2.5	7
256	Nitrogen doped hybrid carbon based composite dispersed nanofluids as working fluid for low-temperature direct absorption solar collectors. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 9-16	6.4	63
255	Synthesis of Carbon coated Nano- $\text{Na}_4\text{Ni}_3(\text{PO}_4)_2\text{P}_2\text{O}_7$ as a Novel Cathode Material for Hybrid Supercapacitors. <i>Electrochimica Acta</i> , 2015 , 169, 447-455	6.7	29
254	A polymerized ionic liquid functionalized cathode catalyst support for a proton exchange membrane CO_2 conversion cell. <i>RSC Advances</i> , 2015 , 5, 24864-24871	3.7	13
253	Ionic liquid functionalization an effective way to tune carbon dioxide adsorption properties of carbon nanotubes. <i>RSC Advances</i> , 2015 , 5, 35098-35106	3.7	5
252	Nitrogen-Doped Graphene for Ionic Liquid Based Supercapacitors. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 1154-61	1.3	16
251	Spontaneous and specific myogenic differentiation of human mesenchymal stem cells on polyethylene glycol-linked multi-walled carbon nanotube films for skeletal muscle engineering. <i>Nanoscale</i> , 2015 , 7, 18239-49	7.7	25
250	Cerium Oxide Nanoparticles Decorated Graphene Nanosheets for Selective Detection of Dopamine. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4855-62	1.3	21
249	Studies on graphene enfolded olivine composite electrode material via polyol technique for high rate performance lithium-ion batteries. <i>Electronic Materials Letters</i> , 2015 , 11, 841-852	2.9	14
248	Effect of wrinkles on electrochemical performance of multiwalled carbon nanotubes as anode material for Li ion battery. <i>Electrochimica Acta</i> , 2015 , 186, 142-150	6.7	12
247	Optical limiting and nonlinear optical properties of gold-decorated graphene nanocomposites. <i>Optical Materials</i> , 2015 , 39, 182-187	3.3	25
246	Integration of polymerized ionic liquid with graphene for enhanced CO_2 adsorption. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 101-108	13	41
245	Effect of complex formation on nonlinear optical parameters of dye-graphene system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 299, 54-61	4.7	10

244	Task-specific functionalization of graphene for use as a cathode catalyst support for carbon dioxide conversion. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 797-804	13	11
243	Green synthesis of boron doped graphene and its application as high performance anode material in Li ion battery. <i>Materials Research Bulletin</i> , 2015 , 61, 383-390	5.1	118
242	Highly Durable Platinum based Cathode Electrocatalysts for PEMFC Application using Oxygen and Nitrogen Functional Groups Attached Nanocarbon Supports. <i>Fuel Cells</i> , 2015 , 15, 278-287	2.9	25
241	Nitrogen doped graphene prepared by hydrothermal and thermal solid state methods as catalyst supports for fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 4337-4348	6.7	50
240	One time nose-only inhalation of MWCNTs: Exploring the mechanism of toxicity by intermittent sacrifice in Wistar rats. <i>Toxicology Reports</i> , 2015 , 2, 111-120	4.8	14
239	Enhanced Photovoltaic Performance in Polypyrrole Nanoparticles Counter Electrode Due to Incorporation of Multi-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4941-7	1.3	2
238	pH Responsive Release of Doxorubicin to the Cancer Cells by Functionalized Multi-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4799-805	1.3	16
237	Directed Self Assembly Of Copper-Based Hierarchical Nanostructures on Nitrogen-Doped Graphene and Their Field Emission Studies. <i>Journal of Physical Chemistry C</i> , 2015 , 150126153530009	3.8	14
236	Hydrogen storage performance of palladium nanoparticles decorated graphitic carbon nitride. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3259-3267	6.7	61
235	Enhanced CO ₂ capture in Fe ₃ O ₄ -graphene nanocomposite by physicochemical adsorption. <i>Journal of Applied Physics</i> , 2014 , 116, 064306	2.5	32
234	Multi-edged wrinkled graphene-like carbon-wrapped carbon nanotubes and highly conductive Pt-free counter electrode for dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	8
233	Gold Decorated Graphene by Laser Ablation for Efficient Electrocatalytic Oxidation of Methanol and Ethanol. <i>Electroanalysis</i> , 2014 , 26, 1850-1857	3	20
232	Platinum-decorated chemically modified reduced graphene oxide/multiwalled carbon nanotube sandwich composite as cathode catalyst for a proton exchange membrane fuel cell. <i>RSC Advances</i> , 2014 , 4, 26140	3.7	28
231	Platinum-graphene hybrid nanostructure as anode and cathode electrocatalysts in proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4912-4918	13	31
230	Hydrogen storage in platinum decorated hydrogen exfoliated graphene sheets by spillover mechanism. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26725-9	3.6	38
229	Ionic liquid-functionalized partially exfoliated multiwalled carbon nanotubes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14054	13	48
228	Stretchable supercapacitors based on highly stretchable ionic liquid incorporated polymer electrolyte. <i>Materials Chemistry and Physics</i> , 2014 , 148, 48-56	4.4	36
227	Synthesis of Au-MWCNT/graphene hybrid composite for the rapid detection of H ₂ O ₂ and glucose. <i>RSC Advances</i> , 2014 , 4, 41670-41677	3.7	21

226	Enhanced Electron Field Emission of One-Dimensional Highly Protruded Graphene Wrapped Carbon Nanotube Composites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5172-5179	3.8	22
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64	Thermodynamic and hydrogen-induced structural properties of Ho _{1-x} MmxCo ₂ -hydrides. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 1183-1189	3	13
63	Influence of hydrogen absorption on structural and electrical transport properties of Ho _{1-x} MmxCo ₂ alloys. <i>Journal of Applied Physics</i> , 2007 , 102, 063706	2.5	6
62	Correlation between hydrogen storage properties and amount of alloy particles in Mg-based composites. <i>Journal of Alloys and Compounds</i> , 2007 , 438, 285-292	5.7	9
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60	Nanocrystalline Metal Oxides Dispersed Multiwalled Carbon Nanotubes as Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7727-7734	3.8	270
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57	Effects of ball-milling conditions and additives on the hydrogen sorption properties of Mg + 5 wt% Cr ₂ O ₃ mixtures. <i>Journal of Materials Research</i> , 2006 , 21, 1747-1752	2.5	9
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53	Nanostructured Pt functionlized multiwalled carbon nanotube based hydrogen sensor. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11291-8	3.4	164
52	Dynamics and charge transfer of hydrogen interstitials in ZrCrFe _{0.5} Co _{0.5} . <i>Acta Materialia</i> , 2006 , 54, 3747-3754	3.7	4
51	Structural and hydrogen absorption kinetics studies of polymer dispersed and boron added Zr-based AB ₂ alloy. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 867-876	6.7	20
50	Solubility and diffusion of hydrogen in AB ₂ -type Laves phase alloys. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 265-268	5.7	10
49	Performance of polymer electrolyte membrane fuel cells with carbon nanotubes as oxygen reduction catalyst support material. <i>Journal of Power Sources</i> , 2005 , 140, 250-257	8.9	200
48	Effect of substitutional elements on hydrogen absorption properties in ZrMnFe _{0.5} Ni _{0.5} and ZrMnFe _{0.5} Co _{0.5} ?. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 53-67	6.7	19
47	Catalytic growth of carbon nanotubes over Ni/Cr hydrotalcite-type anionic clay and their hydrogen storage properties. <i>Applied Surface Science</i> , 2005 , 242, 192-198	6.7	48

46	Studies of yield and nature of carbon nanostructures synthesized by pyrolysis of ferrocene and hydrogen adsorption studies of carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 311-317	6.7	30
45	Diffusion of hydrogen interstitials in Zr based AB ₂ and mischmetal based AB ₅ alloys. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 5201-5206	1.8	2
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42	Hydriding properties of Ti-substituted non-stoichiometric AB ₂ alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 381, 140-150	5.7	28
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