

Sundara Ramaprabhu

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369
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389
ext. papers

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ext. citations

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7.35
L-index

#	Paper	IF	Citations
369	Nitrogen doped graphene nanoplatelets as catalyst support for oxygen reduction reaction in proton exchange membrane fuel cell. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7114		555
368	A Raman spectroscopic investigation of graphite oxide derived graphene. <i>AIP Advances</i> , 2012 , 2, 032183	1.5	513
367	Functionalized Graphene-Based Nanocomposites for Supercapacitor Application. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14006-14013	3.8	321
366	Nanostructured Pt decorated graphene and multi walled carbon nanotube based room temperature hydrogen gas sensor. <i>Nanoscale</i> , 2009 , 1, 382-6	7.7	312
365	Graphene-based engine oil nanofluids for tribological applications. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4221-7	9.5	297
364	Functionalized Graphene/PVDF Foam Composites for EMI Shielding. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 894-898	3.9	297
363	Graphene synthesis via hydrogen induced low temperature exfoliation of graphite oxide. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8467		283
362	Nanocrystalline Metal Oxides Dispersed Multiwalled Carbon Nanotubes as Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7727-7734	3.8	270
361	Functionalized graphene sheets for arsenic removal and desalination of sea water. <i>Desalination</i> , 2011 , 282, 39-45	10.3	256
360	Metal decorated graphene nanosheets as immobilization matrix for amperometric glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2010 , 145, 71-77	8.5	234
359	Effect of nitrogen doping on hydrogen storage capacity of palladium decorated graphene. <i>Langmuir</i> , 2012 , 28, 7826-33	4	218
358	Synthesis of graphene-multiwalled carbon nanotubes hybrid nanostructure by strengthened electrostatic interaction and its lithium ion battery application. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9949		217
357	Novel Platinum/Cobalt Alloy Nanoparticles Dispersed on Nitrogen-Doped Graphene as a Cathode Electrocatalyst for PEMFC Applications. <i>Advanced Functional Materials</i> , 2012 , 22, 3519-3526	15.6	211
356	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
355	Investigation of thermal and electrical conductivity of graphene based nanofluids. <i>Journal of Applied Physics</i> , 2010 , 108, 124308	2.5	187
354	SiO ₂ coated Fe ₃ O ₄ magnetic nanoparticle dispersed multiwalled carbon nanotubes based amperometric glucose biosensor. <i>Talanta</i> , 2010 , 80, 2016-22	6.2	185
353	Polyaniline/MnO ₂ nanotube hybrid nanocomposite as supercapacitor electrode material in acidic electrolyte. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17601		179

352	Investigation of Spillover Mechanism in Palladium Decorated Hydrogen Exfoliated Functionalized Graphene. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15679-15685	3.8	174
351	Synthesis and nanofluid application of silver nanoparticles decorated graphene. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9702		171
350	Study of removal of azo dye by functionalized multi walled carbon nanotubes. <i>Chemical Engineering Journal</i> , 2010 , 162, 1026-1034	14.7	169
349	Investigation of Structural Stability, Dispersion, Viscosity, and Conductive Heat Transfer Properties of Functionalized Carbon Nanotube Based Nanofluids. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16737-16744	3.8	168
348	Nanostructured Pt functionlized multiwalled carbon nanotube based hydrogen sensor. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11291-8	3.4	164
347	Development of carbon nanotubes and nanofluids based microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6749-6754	6.7	159
346	Functionalized graphene reinforced thermoplastic nanocomposites as strain sensors in structural health monitoring. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12626		155
345	Synthesis and Transport Properties of Metal Oxide Decorated Graphene Dispersed Nanofluids. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8527-8533	3.8	155
344	Top down method for synthesis of highly conducting graphene by exfoliation of graphite oxide using focused solar radiation. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6800		139
343	Nanostructured polyaniline decorated graphene sheets for reversible CO ₂ capture. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3708		137
342	Cobalt-polypyrrole-multiwalled carbon nanotube catalysts for hydrogen and alcohol fuel cells. <i>Carbon</i> , 2008 , 46, 2-11	10.4	137
341	Magnetite Decorated Multiwalled Carbon Nanotube Based Supercapacitor for Arsenic Removal and Desalination of Seawater. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2583-2590	3.8	133
340	A thionine functionalized multiwalled carbon nanotube modified electrode for the determination of hydrogen peroxide. <i>Carbon</i> , 2007 , 45, 1340-1353	10.4	127
339	Platinum-TM (TM = Fe, Co) alloy nanoparticles dispersed nitrogen doped (reduced graphene oxide-multiwalled carbon nanotube) hybrid structure cathode electrocatalysts for high performance PEMFC applications. <i>Nanoscale</i> , 2013 , 5, 5109-18	7.7	119
338	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
337	PtRu/multi-walled carbon nanotubes as electrocatalysts for direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 427-433	6.7	118
336	Enhanced convective heat transfer using graphene dispersed nanofluids. <i>Nanoscale Research Letters</i> , 2011 , 6, 289	5	117
335	Facile synthesis of SnO ₂ nanoparticles dispersed nitrogen doped graphene anode material for ultrahigh capacity lithium ion battery applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3865	13	112

334	Graphene/multiwalled carbon nanotube-based nanofluids for improved heat dissipation. <i>RSC Advances</i> , 2013 , 3, 4199	3.7	112
333	Poly(p-phenylenediamine)/graphene nanocomposites for supercapacitor applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18775-18783		110
332	Carbon dioxide adsorption in graphene sheets. <i>AIP Advances</i> , 2011 , 1, 032152	1.5	110
331	Nano magnetite decorated multiwalled carbon nanotubes: a robust nanomaterial for enhanced carbon dioxide adsorption. <i>Energy and Environmental Science</i> , 2011 , 4, 889-895	35.4	109
330	Thermal conductivity studies of metal dispersed multiwalled carbon nanotubes in water and ethylene glycol based nanofluids. <i>Journal of Applied Physics</i> , 2009 , 106, 084317	2.5	109
329	Graphene based all-solid-state supercapacitors with ionic liquid incorporated polyacrylonitrile electrolyte. <i>Energy</i> , 2013 , 51, 374-381	7.9	108
328	One-pot synthesis of conducting graphene-polymer composites and their strain sensing application. <i>Nanoscale</i> , 2012 , 4, 1258-62	7.7	104
327	A glucose biosensor based on deposition of glucose oxidase onto crystalline gold nanoparticle modified carbon nanotube electrode. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3190-4	3.4	100
326	Nanostructured Pt Dispersed on Graphene-Multiwalled Carbon Nanotube Hybrid Nanomaterials as Electrocatalyst for PEMFC. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B874	3.9	96
325	Enhanced optical limiting in functionalized hydrogen exfoliated graphene and its metal hybrids. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2773	7.1	95
324	Facile synthesis of triangular shaped palladium nanoparticles decorated nitrogen doped graphene and their catalytic study for renewable energy applications. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2240-2250	6.7	95
323	Development of Au nanoparticles dispersed carbon nanotube-based biosensor for the detection of paraoxon. <i>Nanoscale</i> , 2010 , 2, 806-10	7.7	89
322	Pt/SWNT/Bt/C Nanocomposite Electrocatalysts for Proton-Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16138-16146	3.8	89
321	Asymmetric Flexible Supercapacitor Stack. <i>Nanoscale Research Letters</i> , 2008 , 3, 145-151	5	88
320	Graphene-multi walled carbon nanotube hybrid electrocatalyst support material for direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7284-7290	6.7	86
319	Inorganic nanotubes reinforced polyvinylidene fluoride composites as low-cost electromagnetic interference shielding materials. <i>Nanoscale Research Letters</i> , 2011 , 6, 137	5	85
318	Synthesis of carbon nanotubes by pyrolysis of acetylene using alloy hydride materials as catalysts and their hydrogen adsorption studies. <i>Chemical Physics Letters</i> , 2003 , 374, 513-520	2.5	85
317	Wrinkled Graphenes: A Study on the Effects of Synthesis Parameters on Exfoliation-Reduction of Graphite Oxide. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17660-17669	3.8	84

316	Synthesis and Thermal Conductivity of Copper Nanoparticle Decorated Multiwalled Carbon Nanotubes Based Nanofluids. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9315-9319	3.8	82
315	Palladium dispersed multiwalled carbon nanotube based hydrogen sensor for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2518-2526	6.7	82
314	Thermally exfoliated graphene based counter electrode for low cost dye sensitized solar cells. <i>Journal of Applied Physics</i> , 2011 , 109, 124308	2.5	79
313	Catalytic activity of platinum-cobalt alloy nanoparticles decorated functionalized multiwalled carbon nanotubes for oxygen reduction reaction in PEMFC. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 412-421	6.7	75
312	Carbon Nanotubes-Graphene-Solidlike Ionic Liquid Layer-Based Hybrid Electrode Material for High Performance Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14179-14187	3.8	73
311	Carbon nanotube bottles for incorporation, release and enhanced cytotoxic effect of cisplatin. <i>Carbon</i> , 2019 , 50, 1625-1634	10.4	73
310	Optical nonlinearity of silver-decorated graphene. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 669	1.7	72
309	Platinum/multiwalled carbon nanotubes-platinum/carbon composites as electrocatalysts for oxygen reduction reaction in proton exchange membrane fuel cell. <i>Applied Physics Letters</i> , 2006 , 88, 2531-2534	3.4	71
308	Synthesis and investigation of mechanism of platinum-graphene electrocatalysts by novel co-reduction techniques for proton exchange membrane fuel cell applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 25325		64
307	Fabrication of Organophosphorus Biosensor Using ZnO Nanoparticle-Decorated Carbon Nanotube-Graphene Hybrid Composite Prepared by a Novel Green Technique. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13202-13209	3.8	64
306	Experimental investigation of the thermal transport properties of a carbon nanohybrid dispersed nanofluid. <i>Nanoscale</i> , 2011 , 3, 2208-14	7.7	64
305	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
304	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
303	Hydrogen storage performance of palladium nanoparticles decorated graphitic carbon nitride. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3259-3267	6.7	61
302	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
301	Solar light assisted green synthesis of palladium nanoparticle decorated nitrogen doped graphene for hydrogen storage application. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11192	13	58
300	Hydrogen storage properties of nanocrystalline Pt dispersed multi-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 3998-4004	6.7	57
299	Exfoliated single-walled carbon nanotube-based hydrogen sensor. <i>Sensors and Actuators B: Chemical</i> , 2008 , 130, 653-660	8.5	57

298	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
297	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
296	Alloy hydride catalyst route for the synthesis of single-walled carbon nanotubes, multi-walled carbon nanotubes and magnetic metal-filled multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 5299-5305	3.4	50
295	Ionic liquid-functionalized partially exfoliated multiwalled carbon nanotubes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14054	13	48
294	In vivo biodistribution of platinum-based drugs encapsulated into multi-walled carbon nanotubes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 1465-75	6	48
293	Modified graphene based molecular imprinted polymer for electrochemical non-enzymatic cholesterol biosensor. <i>European Polymer Journal</i> , 2017 , 86, 106-116	5.2	48
292	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
291	Graphene wrapped multiwalled carbon nanotubes dispersed nanofluids for heat transfer applications. <i>Journal of Applied Physics</i> , 2012 , 112, 124304	2.5	47
290	Solar exfoliated graphene-carbon nanotube hybrid nano composites as efficient catalyst supports for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18199		47
289	Hybrid carbon nanostructured ensembles as chemiresistive hydrogen gas sensors. <i>Carbon</i> , 2011 , 49, 227-236	12.6	47
288	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
287	Green approach for the large-scale synthesis of metal/metal oxide nanoparticle decorated multiwalled carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 482-486	13	46
286	Facile synthesis of one dimensional graphene wrapped carbon nanotube composites by chemical vapour deposition. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15179		46
285	A non-aqueous electrolyte-based asymmetric supercapacitor with polymer and metal oxide/multiwalled carbon nanotube electrodes. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 725-729	2.3	44
284	A cholesterol biosensor based on gold nanoparticles decorated functionalized graphene nanoplatelets. <i>Thin Solid Films</i> , 2011 , 519, 5667-5672	2.2	44
283	Synthesis and hydrogen storage properties of carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 381-386	6.7	43
282	Copper-63 nuclear quadrupole resonance frequencies and molecular geometries of three-co-ordinate complexes of copper(I) halides with N-alkylimidazolidinethione and thiazolidinethione ligands. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995 , 115		43
281	Pt nanoparticle-dispersed graphene-wrapped MWNT composites as oxygen reduction reaction electrocatalyst in proton exchange membrane fuel cell. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3805-10	9.5	42

280	Nitrogen-doped multi-walled carbon nanocoils as catalyst support for oxygen reduction reaction in proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2010 , 195, 8080-8083	8.9	42
279	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
278	Field emission from carbon nanotubes on a graphitized carbon fabric. <i>Carbon</i> , 2008 , 46, 1656-1663	10.4	40
277	Structural, morphological and hydrogen sensing studies on pulsed laser deposited nanostructured palladium thin films. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 2791-2795	3	40
276	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
275	Surfactant free graphene nanosheets based nanofluids by in-situ reduction of alkaline graphite oxide suspensions. <i>Journal of Applied Physics</i> , 2011 , 110, 124326	2.5	38
274	Effect of substitutional elements on hydrogen absorption properties in Mm-based AB ₅ alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 363, 275-291	5.7	38
273	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
272	Polyaniline/multiwalled carbon nanotubes nanocomposite-an excellent reversible CO ₂ capture candidate. <i>RSC Advances</i> , 2012 , 2, 1746	3.7	37
271	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
270	Stretchable supercapacitors based on highly stretchable ionic liquid incorporated polymer electrolyte. <i>Materials Chemistry and Physics</i> , 2014 , 148, 48-56	4.4	36
269	Enhanced red emission from YVO ₄ :Eu ³⁺ nano phosphors prepared by simple Co-Precipitation Method. <i>Electronic Materials Letters</i> , 2011 , 7, 161-165	2.9	35
268	AuMnO ₂ /MWNT and AuZnO/MWNT as oxygen reduction reaction electrocatalyst for polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6371-6376	6.7	35
267	Enhanced Sodium Ion Storage in Interlayer Expanded Multiwall Carbon Nanotubes. <i>Nano Letters</i> , 2018 , 18, 5688-5696	11.5	34
266	Enhanced optical limiting and carrier dynamics in metal oxide-hydrogen exfoliated graphene hybrids. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 10116-10123	7.1	33
265	Facile and simultaneous production of metal/metal oxide dispersed graphene nano composites by solar exfoliation. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17094		33
264	Electron field emission properties of conducting polymer coated multi walled carbon nanotubes. <i>Applied Surface Science</i> , 2008 , 254, 6770-6774	6.7	33
263	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

262	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
261	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
260	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
259	N-doped 3D porous carbon-graphene/polyaniline hybrid and N-doped porous carbon coated gC ₃ N ₄ nanosheets for excellent energy density asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2019 , 305, 264-277	6.7	31
258	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
257	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
256	Carbon nanocoils for multi-functional energy applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16103		31
255	Electron field emitters based on multiwalled carbon nanotubes decorated with nanoscale metal clusters. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 179-189	2.3	31
254	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
253	Soft functionalization of graphene for enhanced tri-iodide reduction in dye sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8377		30
252	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
251	Synthesis of multi-walled carbon nanotubes in high yield using Mm based AB ₂ alloy hydride catalysts and the effect of purification on their hydrogen adsorption properties. <i>Nanotechnology</i> , 2005 , 16, 518-524	3.4	30
250	Synthesis of Carbon coated Nano-Na ₄ Ni ₃ (PO ₄) ₂ P ₂ O ₇ as a Novel Cathode Material for Hybrid Supercapacitors. <i>Electrochimica Acta</i> , 2015 , 169, 447-455	6.7	29
249	Cold field emission from hydrogen exfoliated graphene composites. <i>Applied Physics Letters</i> , 2011 , 98, 183111	3.4	29
248	The effect of non-stoichiometry on the hydrogen storage properties of Ti-substituted AB ₂ alloys. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 7501-7517	1.8	29
247	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
246	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
245	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

244	Enhanced efficiency in dye sensitized solar cells with nanostructured Pt decorated multiwalled carbon nanotube based counter electrode. <i>Electrochimica Acta</i> , 2012 , 72, 199-206	6.7	28
243	Hydriding properties of Ti-substituted non-stoichiometric AB ₂ alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 381, 140-150	5.7	28
242	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
241	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
240	Multi walled carbon nanotubes based micro direct ethanol fuel cell using printed circuit board technology. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1339-1346	6.7	27
239	Solubility of Hydrogen in Solid Solution Palladium Alloys. <i>Zeitschrift Fur Physikalische Chemie</i> , 1989 , 161, 83-105	3.1	27
238	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
237	Removal of metals from aqueous solution and sea water by functionalized graphite nanoplatelets based electrodes. <i>Journal of Hazardous Materials</i> , 2011 , 185, 322-8	12.8	26
236	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
235	Optical limiting and nonlinear optical properties of gold-decorated graphene nanocomposites. <i>Optical Materials</i> , 2015 , 39, 182-187	3.3	25
234	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
233	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
232	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
231	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
230	Graphene-Functionalized Carbon Nanotubes for Conducting Polymer Nanocomposites and Their Improved Strain Sensing Properties. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 2439-2444	2.6	24
229	Noble metal dispersed multiwalled carbon nanotubes immobilized ss-DNA for selective detection of dopamine. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 679-686	8.5	24
228	Hydrogen absorption and desorption properties of Ho _{1-x} MmxCo ₂ alloys. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2480-2487	6.7	24
227	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

226	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
225	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
224	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
223	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
222	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
221	Copper-63,65 nuclear quadrupole resonance of complexes of copper(I) halides with phosphorus-containing ligands. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993 , 871		23
220	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
219	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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