

Cengiz zkan

List of Publications by Citations

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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.

286

papers

4,151

citations

33

h-index

62

g-index

306

ext. papers

4,593

ext. citations

5.8

avg, IF

5.23

L-index

#	Paper	IF	Citations
286	Spontaneous Insertion of DNA Oligonucleotides into Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 471-473	11.5	397
285	Hydrous ruthenium oxide nanoparticles anchored to graphene and carbon nanotube hybrid foam for supercapacitors. <i>Scientific Reports</i> , 2014 , 4, 4452	4.9	356
284	Zeta potential: a surface electrical characteristic to probe the interaction of nanoparticles with normal and cancer human breast epithelial cells. <i>Biomedical Microdevices</i> , 2008 , 10, 321-8	3.7	298
283	Three dimensional few layer graphene and carbon nanotube foam architectures for high fidelity supercapacitors. <i>Nano Energy</i> , 2013 , 2, 294-303	17.1	236
282	Scalable synthesis of nano-silicon from beach sand for long cycle life Li-ion batteries. <i>Scientific Reports</i> , 2014 , 4, 5623	4.9	145
281	Stable cycling of SiO ₂ nanotubes as high-performance anodes for lithium-ion batteries. <i>Scientific Reports</i> , 2014 , 4, 4605	4.9	139
280	Synthesis and characterization of polyamidoamine dendrimer-coated multi-walled carbon nanotubes and their application in gene delivery systems. <i>Nanotechnology</i> , 2009 , 20, 125101	3.4	119
279	Optical Manipulation of Objects and Biological Cells in Microfluidic Devices. <i>Biomedical Microdevices</i> , 2003 , 5, 61-67	3.7	104
278	Monodisperse porous silicon spheres as anode materials for lithium ion batteries. <i>Scientific Reports</i> , 2015 , 5, 8781	4.9	99
277	Hybrid carbon nanotube and graphene nanostructures for lithium ion battery anodes. <i>Nano Energy</i> , 2014 , 3, 113-118	17.1	95
276	Fundamentals of lateral and vertical heterojunctions of atomically thin materials. <i>Nanoscale</i> , 2016 , 8, 3870-87	7.7	90
275	Wafer Scale Synthesis and High Resolution Structural Characterization of Atomically Thin MoS ₂ Layers. <i>Advanced Functional Materials</i> , 2014 , 24, 7461-7466	15.6	87
274	A surface-charge study on cellular-uptake behavior of F3-peptide-conjugated iron oxide nanoparticles. <i>Small</i> , 2009 , 5, 1990-6	11	85
273	Bio-Derived, Binderless, Hierarchically Porous Carbon Anodes for Li-ion Batteries. <i>Scientific Reports</i> , 2015 , 5, 14575	4.9	83
272	Effects of Carbon Nanotubes on Photoluminescence Properties of Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 939-944	3.8	80
271	Heterogeneous graphene nanostructures: ZnO nanostructures grown on large-area graphene layers. <i>Small</i> , 2010 , 6, 2448-52	11	79
270	Silicon decorated cone shaped carbon nanotube clusters for lithium ion battery anodes. <i>Small</i> , 2014 , 10, 3389-96	11	59

269	DNA-Templated Ordered Array of Gold Nanorods in One and Two Dimensions. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12572-12576	3.8	56
268	Towards scalable binderless electrodes: carbon coated silicon nanofiber paper via Mg reduction of electrospun SiO ₂ nanofibers. <i>Scientific Reports</i> , 2015 , 5, 8246	4.9	55
267	Photoinduced Electron Transfer Between Pyridine Coated Cadmium Selenide Quantum Dots and Single Sheet Graphene. <i>Advanced Functional Materials</i> , 2013 , 23, 5199-5211	15.6	54
266	Silicon and Carbon Nanocomposite Spheres with Enhanced Electrochemical Performance for Full Cell Lithium Ion Batteries. <i>Scientific Reports</i> , 2017 , 7, 44838	4.9	53
265	Intertwined nanocarbon and manganese oxide hybrid foam for high-energy supercapacitors. <i>Small</i> , 2013 , 9, 3714-21	11	51
264	Template Free and Binderless NiO Nanowire Foam for Li-ion Battery Anodes with Long Cycle Life and Ultrahigh Rate Capability. <i>Scientific Reports</i> , 2016 , 6, 29183	4.9	50
263	Gating of single-layer graphene with single-stranded deoxyribonucleic acids. <i>Small</i> , 2010 , 6, 1150-5	11	48
262	Free-standing Ni/NiO nanofiber cloth anode for high capacity and high rate Li-ion batteries. <i>Nano Energy</i> , 2015 , 18, 47-56	17.1	46
261	Oxygen etching of thick MoS ₂ films. <i>Chemical Communications</i> , 2014 , 50, 11226-9	5.8	45
260	Towards flexible binderless anodes: silicon/carbon fabrics via double-nozzle electrospinning. <i>Chemical Communications</i> , 2016 , 52, 11398-11401	5.8	42
259	Silicon Derived from Glass Bottles as Anode Materials for Lithium Ion Full Cell Batteries. <i>Scientific Reports</i> , 2017 , 7, 917	4.9	41
258	Separation of individual neurons using dielectrophoretic alternative current fields. <i>Journal of Neuroscience Methods</i> , 2004 , 135, 79-88	3	40
257	Carbon-Coated, Diatomite-Derived Nanosilicon as a High Rate Capable Li-ion Battery Anode. <i>Scientific Reports</i> , 2016 , 6, 33050	4.9	38
256	Phase Engineering of 2D Tin Sulfides. <i>Small</i> , 2016 , 12, 2998-3004	11	37
255	Label free DNA detection using large area graphene based field effect transistor biosensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5258-63	1.3	36
254	Toxicology Study of Single-walled Carbon Nanotubes and Reduced Graphene Oxide in Human Sperm. <i>Scientific Reports</i> , 2016 , 6, 30270	4.9	35
253	Assembled graphene oxide and single-walled carbon nanotube ink for stable supercapacitors. <i>Journal of Materials Research</i> , 2013 , 28, 918-926	2.5	31
252	Molecular absorption and photodesorption in pristine and functionalized large-area graphene layers. <i>Nanotechnology</i> , 2011 , 22, 355701	3.4	30

251	Supercapacitors based on pillared graphene nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1770-5	1.3	27
250	Bundled and dispersed carbon nanotube assemblies on graphite superstructures as free-standing lithium-ion battery anodes. <i>Carbon</i> , 2019 , 142, 238-244	10.4	26
249	Centimeter-scale high-resolution metrology of entire CVD-grown graphene sheets. <i>Small</i> , 2011 , 7, 2598-606	6.0	25
248	Improved functionality of graphene and carbon nanotube hybrid foam architecture by UV-ozone treatment. <i>Nanoscale</i> , 2015 , 7, 7045-50	7.7	24
247	Cell adhesion measurement by laser-induced stress waves. <i>Journal of Applied Physics</i> , 2006 , 100, 084701	2.5	24
246	Hybrid low resistance ultracapacitor electrodes based on 1-pyrenebutyric acid functionalized centimeter-scale graphene sheets. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6913-20	1.3	22
245	Making one-dimensional electrical contacts to molybdenum disulfide-based heterostructures through plasma etching. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1358-1364	1.6	22
244	Two step growth phenomena of molybdenum disulfide-tungsten disulfide heterostructures. <i>Chemical Communications</i> , 2015 , 51, 11213-6	5.8	21
243	Tuning electron transport in graphene-based field-effect devices using block co-polymers. <i>Small</i> , 2012 , 8, 1073-80	11	21
242	Scalable, Binderless, and Carbonless Hierarchical Ni Nanodendrite Foam Decorated with Hydrous Ruthenium Dioxide for 1.6 V Symmetric Supercapacitors. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500503	4.6	20
241	Synthesis of Atomically Thin MoS_2 Triangles and Hexagrams and Their Electrical Transport Properties. <i>IEEE Nanotechnology Magazine</i> , 2014 , 13, 749-754	2.6	20
240	Magnetic force microscopy of iron oxide nanoparticles and their cellular uptake. <i>Biotechnology Progress</i> , 2009 , 25, 923-8	2.8	20
239	Ultrafast high energy supercapacitors based on pillared graphene nanostructures. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3356-3361	13	19
238	Industrial graphene metrology. <i>Nanoscale</i> , 2012 , 4, 3807-19	7.7	19
237	Templated Fabrication of InSb Nanowires for Nanoelectronics. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-5	3.2	19
236	Electric Field Assisted Patterning of Neuronal Networks for the Study of Brain Functions. <i>Biomedical Microdevices</i> , 2003 , 5, 125-137	3.7	19
235	High energy and power density LiO_2 battery cathodes based on amorphous RuO_2 loaded carbon free and binderless nickel nanofoam architectures. <i>RSC Advances</i> , 2016 , 6, 81712-81718	3.7	18
234	Kinetics and electrochemical evolution of binary silicon-polymer systems for lithium ion batteries. <i>RSC Advances</i> , 2017 , 7, 36541-36549	3.7	18

233	Neuron-based microarray sensors for environmental sensing. <i>Electrophoresis</i> , 2004 , 25, 3746-60	3.6	17
232	Neurons as sensors: individual and cascaded chemical sensing. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1599-610	11.8	16
231	Silicon Oxide Contamination of Graphene Sheets Synthesized on Copper Substrates via Chemical Vapor Deposition. <i>Advanced Science, Engineering and Medicine</i> , 2014 , 6, 1070-1075	0.6	16
230	Synthesis and Characterization of Iron Oxide Derivatized Mutant Cowpea Mosaic Virus Hybrid Nanoparticles. <i>Advanced Materials</i> , 2008 , 20, 4816-4820	24	15
229	Advanced Sulfur-Silicon Full Cell Architecture for Lithium Ion Batteries. <i>Scientific Reports</i> , 2017 , 7, 17264	4.9	14
228	Synchronous chemical vapor deposition of large-area hybrid graphene-carbon nanotube architectures. <i>Journal of Materials Research</i> , 2013 , 28, 958-968	2.5	14
227	Chelant Enhanced Solution Processing for Wafer Scale Synthesis of Transition Metal Dichalcogenide Thin Films. <i>Scientific Reports</i> , 2017 , 7, 6419	4.9	13
226	Chrysanthemum like carbon nanofiber foam architectures for supercapacitors. <i>Journal of Materials Research</i> , 2013 , 28, 912-917	2.5	13
225	Plateau targeted conditioning: An additive-free approach towards robust SEI formation in Li-S batteries for enhanced capacity and cycle life. <i>Nano Energy</i> , 2018 , 49, 498-507	17.1	12
224	Non-Invasive High-Throughput Metrology of Functionalized Graphene Sheets. <i>Advanced Functional Materials</i> , 2012 , 22, 4519-4525	15.6	12
223	Adaptive fast charging methodology for commercial Li-ion batteries based on the internal resistance spectrum. <i>Energy Storage</i> , 2020 , 2, e141	2.8	11
222	Suppression of the Shuttle Effect in LiB Batteries via Magnetron Sputtered TiO2 Thin Film at the Electrode/Electrolyte Interface. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1515-1529	6.1	11
221	Upcycling of polyethylene terephthalate plastic waste to microporous carbon structure for energy storage. <i>Energy Storage</i> , 2020 , 2, e201	2.8	11
220	Raman investigation of the air stability of 2H polytype HfSe2 thin films. <i>MRS Communications</i> , 2018 , 8, 1191-1196	2.7	11
219	Synthesis, characterization, and electronic structure of few-layer MoSe2 granular films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2671-2676	1.6	10
218	Facile Synthesis of Nickel Nanofoam Architectures for Applications in Li-Ion Batteries. <i>Energy Technology</i> , 2017 , 5, 422-427	3.5	10
217	High-Potential Metalless Nanocarbon Foam Supercapacitors Operating in Aqueous Electrolyte. <i>Small</i> , 2018 , 14, e1702444	11	9
216	Scalable Multifunctional Ultra-thin Graphite Sponge: Free-standing, Superporous, Superhydrophobic, Oleophilic Architecture with Ferromagnetic Properties for Environmental Cleaning. <i>Scientific Reports</i> , 2016 , 6, 21858	4.9	9

215	Large area synthesis, characterization, and anisotropic etching of two dimensional tungsten disulfide films. <i>Materials Chemistry and Physics</i> , 2016 , 176, 52-57	4.4	8
214	Tumor growth inhibition by mSTEAP peptide nanovaccine inducing augmented CD8 T cell immune responses. <i>Drug Delivery and Translational Research</i> , 2019 , 9, 1095-1105	6.2	7
213	State-of-health prediction for lithium-ion batteries via electrochemical impedance spectroscopy and artificial neural networks. <i>Energy Storage</i> , 2020 , 2, e186	2.8	7
212	Graphynes: Advanced Carbon Materials with Layered Structure 2019 , 113-150		7
211	Facile and Scalable Synthesis of Copolymer-Sulfur Composites as Cathodes for High Performance Lithium-Sulfur Batteries. <i>MRS Advances</i> , 2017 , 2, 3271-3276	0.7	7
210	Strain Gated Bilayer Molybdenum Disulfide Field Effect Transistor with Edge Contacts. <i>Scientific Reports</i> , 2017 , 7, 41593	4.9	6
209	Twisted Bilayer Graphene: Low-Energy Physics, Electronic and Optical Properties 2019 , 177-231		6
208	Modeling and Optimal Design of High-Sensitivity Piezoresistive Microcantilevers Within Flow Channels for Biosensing Applications. <i>Biomedical Microdevices</i> , 2003 , 5, 323-332	3.7	6
207	Scaling sorbent materials for real oil-sorbing applications and environmental disasters. <i>MRS Energy & Sustainability</i> , 2019 , 6, 1	2.2	5
206	Growth of High-Quality Hexagonal Boron Nitride Single-Layer Films on Carburized Ni Substrates for Metal-Insulator-Metal Tunneling Devices. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35318-35327	9.5	5
205	Polymeric Nanocomposites Including Graphene Nanoplatelets 2019 , 481-515		5
204	Effect of incident light power on Schottky barriers and I-V characteristics of organic bulk heterojunction photodiodes. <i>Applied Physics Letters</i> , 2010 , 96, 143301	3.4	5
203	Improved electrochemical performance of LiCoO ₂ electrodes for high-voltage operations by Ag thin film coating via magnetron sputtering. <i>MRS Advances</i> , 2018 , 3, 3513-3518	0.7	5
202	Effect of intermittent oxygen exposure on chemical vapor deposition of graphene. <i>MRS Communications</i> , 2017 , 7, 826-831	2.7	4
201	Exfoliated Graphene-Based 2D Materials: Synthesis and Catalytic Behaviors 2019 , 529-558		4
200	Graphene and Its Derivatives as Platforms for MALDI-MS 2019 , 273-289		4
199	Periodic alignment of Si quantum dots on hafnium oxide coated single wall carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 94, 123109	3.4	4
198	Facile Synthesis and Characterization of Two Dimensional Layered Tin Disulfide Nanowalls. <i>Journal of Electronic Materials</i> , 2016 , 45, 2115-2120	1.9	4

197	Three-Dimensional Graphene-Based Structures: Production Methods, Properties, and Applications 2019 , 359-387		3
196	Graphene Plasmonic: Switching Applications 2019 , 455-505		3
195	Graphene-Reinforced Advanced Composite Materials 2019 , 27-89		3
194	Fabrication and Properties of Copper Graphene Composites 2019 , 285-322		3
193	Graphene-Based Nanomaterials in Tissue Engineering and Regenerative Medicine 2019 , 637-658		3
192	Chemical vapor deposition of partially oxidized graphene. <i>RSC Advances</i> , 2017 , 7, 32209-32215	3-7	3
191	Transmission Near-Field Scanning Optical Microscopy Investigation on Cellular Uptake Behavior of Iron Oxide Nanoparticles. <i>BioNanoScience</i> , 2012 , 2, 135-143	3-4	3
190	Synthesis of Graphene-CNT Hybrid Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		3
189	Chemical vapor deposition and phase stability of pyrite on SiO ₂ . <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4753-4759	7-1	2
188	Two-Dimensional Layered Semiconductor Tungsten Disulfide and Molybdenum-Tungsten Disulfide: Synthesis, Materials Properties and Electronic Structure. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 8419-8423	1-3	2
187	Topological Design of Graphene 2019 , 1-44		2
186	Proximity-Induced Topological Transition and Strain-Induced Charge Transfer in Graphene/MoS ₂ Bilayer Heterostructures 2019 , 1-28		2
185	Graphene Structures: From Preparations to Applications 2019 , 323-357		2
184	Electrochemically Reduced Graphene Oxide: A Smart Material for Electrochemical Sensing 2019 , 603-629		2
183	Controlling the Electromagnetic and Electrochemical Sensing Properties of Graphene via Heteroatom Doping 2019 , 663-682		2
182	Complex Refractive Index (RI) of Graphene 2019 , 389-412		2
181	Graphene-Based Sensors: Applications in Electrochemical (Bio)sensing 2019 , 349-369		2
180	A Study of Diffusion in Lithium-ion Electrodes Under Fast Charging Using Electrochemical Impedance Spectroscopy. <i>MRS Advances</i> , 2017 , 2, 3309-3315	0-7	2

179	Electrochemical supercapacitor based on flexible pillar graphene nanostructures 2011 ,		2
178	Early-Effect like Behavior in Space Charge Regions of Organic Bulk-Heterojunction Photodiodes. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1360, 103801		2
177	Effects of Process Tube Position on Properties of Graphene Layers. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1451, 57-62		2
176	Normal and cancer breast epithelial cells endocytosis study of nanoparticles by combined AFM and NSOM microscopy 2007 ,		2
175	Novel Survivin Peptides Screened With Computer Algorithm Induce Cytotoxic T Lymphocytes With Higher Cytotoxic Efficiency to Cancer Cells. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 570003	5.6	2
174	Structural and Compositional Characterization of Fungus-Derived Pyrolytic Carbon Architectures. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-8	1.5	2
173	Silicon/polypyrrole nanocomposite wrapped with graphene for lithium ion anodes. <i>MRS Advances</i> , 2017 , 2, 3323-3327	0.7	1
172	Scalable coral-like silicon powders with three-dimensional interconnected structures for lithium ion battery anodes. <i>Energy Storage</i> , 2020 , 2, e187	2.8	1
171	Biological, Biomedical, and Medical Applications of Graphene and Graphene-Based Materials (G-bMs) 2019 , 1-41		1
170	Graphene Oxide Multilayers Obtained from Bamboo: New Synthesis Method, Basic Properties, and Future Electronic Applications 2019 , 191-236		1
169	Nitrogen-Doped Carbon Nanostructures as Oxygen Reduction Reaction (ORR) and Oxygen Evolution Reaction (OER) Electrocatalysts in Acidic Media 2019 , 373-413		1
168	Graphene-Based Biosensors in Agro-Defense: Food Safety and Animal Health Diagnosis 2019 , 29-57		1
167	Buckling Characteristics of Bilayer Graphene Sheets Subjected to Humid Thermomechanical Loading 2019 , 433-454		1
166	Features and Prospects for Epitaxial Graphene on SiC 2019 , 153-199		1
165	Graphene-Based Electrochemical Aptasensors 2019 , 465-482		1
164	Graphene and Graphene Nanocomposite-Based Electrochemical Sensors 2019 , 631-661		1
163	Self-Organized 3D Graphene as a Robust Sensing Platform 2019 , 483-507		1
162	Graphene and Graphene Composites-Modified Electrodes Surfaces for Selective Sensing of Dopamine in the Presence of Ascorbic Acid and Uric Acid 2019 , 683-706		1

161	Graphene-Based Materials for Brain Targeting 2019 , 225-246	1
160	Modelling of Graphene Nanoribbons Antenna Based on MoM-GEC Method to Enhance Nanocommunications in Terahertz Range 2019 , 359-392	1
159	Polymer/Graphene Nanomaterials: A Platform for Current High-Tech Applications 2019 , 455-469	1
158	The Impact of Uniaxial Strain and Defect Pattern on Magneto-electronic and Transport Properties of Graphene 2019 , 451-502	1
157	Peculiarities of Quasi-Particle Spectra in Graphene Nanostructures 2019 , 315-387	1
156	Graphene-Like ANB8 π Compounds on Metals and Semiconductors 2019 , 549-591	1
155	Nature of Graphene, Its Chemical Structure, Composites, Synthesis, Properties, and Applications 2019 , 613-636	1
154	Linear Carbon: From 1D Carbyne to 2D Hybrid sp-sp ² Nanostructures Beyond Graphene 2019 , 297-340	1
153	Atomic Structure and Electronic Properties of Few-Layer Graphene on SiC(001) 2019 , 117-151	1
152	Chemically Modified 2D Materials: Production and Applications 2019 , 373-400	1
151	Ab Initio Design of 2D and 3D Graphene-Based Nanostructure 2019 , 171-202	1
150	Graphene-Based Composite Nanostructures: Synthesis, Properties, and Applications 2019 , 203-232	1
149	Graphene/TiO ₂ Nanocomposites: Synthesis Routes, Characterization, and Solar Cell Applications 2019 , 353-394	1
148	Graphene Nanomaterials in Energy and Environment Applications 2019 , 1-25	1
147	Self- and Directed-Assembly of Metallic and Nonmetallic Fluorophors: Considerations into Graphene and Graphene Oxides for Sensing and Imaging Applications 2019 , 469-505	1
146	Trends and Frontiers in Graphene-Based (Bio)sensors for Pesticides Electroanalysis 2019 , 59-98	1
145	Graphene-Based Biosensors: Design, Construction, and Validation. Toward a Nanotechnological Tool for the Rapid in-Field Detection of Food Toxicants and Environmental Pollutants 2019 , 99-116	1
144	Recent Biosensing Applications of Graphene-Based Nanomaterials 2019 , 297-348	1

143	Graphene-Based Fiber Optic Label-Free Biosensor 2019 , 371-396		1
142	Graphene/Ni Wire Foam with Multivalent Manganese Oxide Catalysts for Li-O ₂ Battery Cathode. <i>MRS Advances</i> , 2017 , 2, 3403-3407	0.7	1
141	Graphene Metrology: Centimeter-Scale High-Resolution Metrology of Entire CVD-Grown Graphene Sheets (Small 18/2011). <i>Small</i> , 2011 , 7, 2598-2598	11	1
140	Effect of Light Intensity on Schottky Barrier Widths and I-V Characteristics of Polymer Heterojunction Photodiodes. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1359, 107		1
139	Au-assisted Growth of Indium Antimonide Nanowires by Chemical Vapor Deposition: Temperature and Growth Duration Effects. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1350, 1		1
138	Label Free DNA Detection Using Large Area Graphene-Based FET Biosensors. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1359, 155		1
137	Graphene Metrology Using Fluorescence Quenching of Different Fluorescent Dyes. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1451, 51-56		1
136	MnO ₂ Decorated Three Dimensional Graphene Heterostructures for Supercapacitor Electrodes. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1451, 63-68		1
135	In-Situ TEM Observations of Surface Roughening and Defect Formation in Lattice Mismatched Heteroepitaxial Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 505, 291		1
134	Electric Field-Assisted Positioning of Neurons on Pt Microelectrode Arrays. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 773, 461		1
133	Experimental study of filling carbon nanotubes with nucleic acids. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 820, 97		1
132	Functionally Engineered Carbon Nanotubes-Peptide Nucleic Acid Nanocomponents. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 872, 1		1
131	Optical Manipulation of Objects in Microfluidic Devices. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 729, 161		1
130	Nanoparticles for Imaging and Therapy: Functionalization, Endocytosis and Characterization. <i>Regenerative Medicine, Artificial Cells and Nanomedicine</i> , 2013 , 355-380		1
129	Robust Nanocapacitors Based on Wafer-Scale Single-Crystal Hexagonal Boron Nitride Monolayer Films. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5685-5695	5.6	1
128	Use of Electric Field Array Devices for Assisted Assembly of DNA Nanocomponents and Other Nanofabrication Applications 2006 , 137-159		1
127	Graphene-Based Nanocomposite Materials for the Design of Electrochemical Sensors and Their Applications 2019 , 535-568		0
126	Graphene Metamaterial Electron Optics: Excitation Processes and Electro-Optical Modulation 2019 , 263-296		0

- 125 Electrochemical Biosensors Based on Green Synthesized Graphene and Graphene Nanocomposites **2019**, 233-296 ○
- 124 Graphene Composites **2019**, 1-25 ○
- 123 Graphene-Based Materials for Implants **2019**, 143-175 ○
- 122 Laser Direct-Writing Graphene Oxide to Graphene Mechanisms to Applications **2019**, 237-287 ○
- 121 Functionalization of Graphene with Molecules and/or Nanoparticles for Advanced Applications **2019**, 559-609 ○
- 120 Label-Free Biosensors Based on Graphene: State-of-the-Art **2019**, 397-427 ○
- 119 Supramolecular Graphene-Based Systems for Drug Delivery **2019**, 443-479
- 118 Beyond cell parameters: Exploiting cell operation towards optimizing the SEI and suppressing dendrite growth on lithium metal anodes. *Energy Storage*, **2020**, 2, e188 2.8
- 117 Graphite in Metallic Materials Growths, Structures, and Defects of Spheroidal Graphite in Ductile Iron **2019**, 1-39
- 116 Adaptation and Viability of Graphene-Based Materials in Clinical Improvement **2019**, 79-98
- 115 Modeling of Graphene-Based Electronics: From Material Properties to Circuit Simulations **2019**, 73-120
- 114 Graphene in Bioelectronics **2019**, 253-262
- 113 Graphene-Based Advanced Nanostructures **2019**, 471-493
- 112 Synthesis, Characterization, and Applications of Polymer/Graphene Oxide Composite Materials **2019**, 541-573
- 111 Graphene-Based Materials for Advanced Lithium-Ion Batteries **2019**, 197-218
- 110 Graphene and Graphene-Based Hybrid Composites for Advanced Rechargeable Battery Electrodes **2019**, 147-196
- 109 Graphene/BiC Reinforced Hybrid Composite Foam: Response to High Strain Rate Deformation **2019**, 101-116
- 108 Three-Dimensional Graphene Foams for Energy Storage Applications **2019**, 49-91

- 107 Graphene Molecules as Platforms for SERS Detection: A Future Perspective **2019**, 429-464
- 106 Interactions of Molecular Species with Graphene and Graphene Sensing **2019**, 509-533
- 105 Self-Assembled Thin Films of Graphene Materials for Sensors **2019**, 569-602
- 104 Finite Element Analysis of Graphene Materials **2019**, 707-730
- 103 Quantitative Real-Time Evaluation of C/O Ratios and Stepwise Control of Deoxidization of Graphene Oxide Using Plasmonic-Based Electrochemical Spectroscopy **2019**, 731-765
- 102 Effect of Graphene Oxide Nanosheets on the Structure and Properties of Cement Composites **2019**, 43-78
- 101 Graphene-Based Synaptic Devices for Neuromorphic Applications **2019**, 99-142
- 100 Ultrashort Pulse Fiber Laser Generation Using Molybdenum Disulfide and Tungsten Disulfide Saturable Absorber **2019**, 177-197
- 99 Graphene-Modified Asphalt **2019**, 199-223
- 98 Electrochemistry of Graphene Materials **2019**, 389-419
- 97 Antimicrobial Activities of Graphene-Based Materials **2019**, 247-266
- 96 Reworking Defective Soldering Joints With Graphene Sheets and Gold Nanoparticles **2019**, 1-9
- 95 Printed Graphene Radio Frequency and Sensing Applications for Internet of Things **2019**, 11-46
- 94 Modeling and Characterization of the Metal Contact and the Channel in a Graphene Device **2019**, 47-71
- 93 Hybrid GrapheneSilicon Photonic and Optoelectronic Integrated Devices **2019**, 121-146
- 92 Sustainability, Research, and Development of Graphene for Engineering Applications **2019**, 147-190
- 91 Hydrogen Functionalized Graphene Nanostructure Material for Spintronic Application **2019**, 421-450
- 90 Wave Propagation Responses of Double-Layered Graphene Sheets in Hygrothermal Environment **2019**, 289-307

- 89 Graphene Terahertz Leaky-Wave Antennas **2019**, 309-340
- 88 Terahertz Applications of Graphene **2019**, 341-357
- 87 Graphene-Based Plasmonic Components for THz Applications: Planar Ring Array Devices **2019**, 393-408
- 86 Exploiting Graphene as an Efficient Catalytic Template for Organic Transformations: Synthesis, Characterization and Activity Evaluation of Graphene-Based Catalysts **2019**, 503-528
- 85 Carbon Allotropes, Between Diamond and Graphite: How to Create Semiconductor Properties in Graphene and Related Structures **2019**, 611-647
- 84 Graphene at the Metal/Oxide Interface: A New Approach to Modify the Chemistry of Supported Metals **2019**, 45-71
- 83 The Combinatorial Structure of Graphene **2019**, 73-94
- 82 Interacting Electrons in Graphene **2019**, 95-125
- 81 Computational Determination of the Properties of Graphene Nanoribbons **2019**, 127-145
- 80 Synthetic Electric Fields Influence the Non-Stationary Processes in Graphene **2019**, 147-193
- 79 Interaction and Manipulation of Bi Adatoms on Monolayer Epitaxial Graphene **2019**, 195-218
- 78 Strain Engineering: Electromechanical Properties of Graphene **2019**, 219-243
- 77 Characteristic Mechanical Responses of Graphene Membranes **2019**, 245-271
- 76 Characterization and Dynamic Manipulation of Graphene by In Situ Transmission Electron Microscopy at Atomic Scale **2019**, 291-314
- 75 Methods of Synthesis and Physicochemical Properties of Fluorographenes **2019**, 63-100
- 74 Fractional Quantum Hall Effect in Graphene, a Topological Approach **2019**, 413-453
- 73 Theoretical Study and Numerical Modeling of Graphene's Electromagnetic Response **2019**, 507-548
- 72 Lower Dimensional Materials **2019**, 593-611

- 71 Planar Graphene Superlattices **2019**, 29-82
- 70 Magnetic and Optical Properties of Graphene Materials with Porous Defects **2019**, 83-111
- 69 Nanoelectronic Application of Graphyne and Its Structural Derivatives **2019**, 151-176
- 68 Effects of Charged Coulomb Impurities on Low-Lying Energy Spectra in Graphene Magnetic Dot and Ring **2019**, 233-252
- 67 Band Structure Modifications in Beyond Graphene Materials **2019**, 341-372
- 66 Black Phosphorus Saturable Absorber for Passive Mode-Locking Pulses Generation **2019**, 401-430
- 65 Search for Fundamental Physics on Table Top Experiments with Dirac/Weyl Materials **2019**, 431-466
- 64 Graphene-Based Composite Materials **2019**, 91-114
- 63 Interfacial Mechanical Properties of Graphene/Substrate System: Measurement Methods and Experimental Analysis **2019**, 115-146
- 62 Graphene-Based Ceramic Composites: Processing and Applications **2019**, 147-169
- 61 Graphene-Based Composites with Shape Memory Effect Properties, Applications, and Future Perspectives **2019**, 233-259
- 60 Graphene-Based Scroll Structures: Optical Characterization and Its Application in Resistive Switching Memory Devices **2019**, 261-283
- 59 Graphene/Metal Oxide Composite as Anode Material in Li-Ion Batteries **2019**, 323-352
- 58 Role of Reduced Graphene Oxide Nanosheet Composition with ZnO Nanostructures in Gas Sensing Properties **2019**, 395-417
- 57 Functional Graphene Oxide/Epoxy Nanocomposite Coatings with Enhanced Protection Properties **2019**, 419-442
- 56 Graphene Oxide/Polyacrylamide Composites: Optical and Mechanical Characterizations **2019**, 517-540
- 55 Graphitic Carbon/Graphene on Si(111) via Direct Deposition of Solid-State Carbon Atoms: Growth Mechanism and Film Characterization **2019**, 201-247
- 54 Graphene as Nanolubricant for Machining **2019**, 27-48

- 53 Graphene-Based Materials for Supercapacitors and Conductive Additives of Lithium Ion Batteries **2019**, 219-298
- 52 Graphene-Based Flexible Actuators, Sensors, and Supercapacitors **2019**, 299-337
- 51 Graphene as Catalyst Support for the Reactions in Fuel Cells **2019**, 339-372
- 50 Chemical Reactivity and Variation in Electronic Properties of Graphene on Ni(111) and Reduced Graphene Oxide **2019**, 249-294
- 49 Recent Advances in Graphene-Based Materials for Photocatalytic H₂ Evolution **2019**, 415-433
- 48 Graphene Thermal Functional Device and Its Property Characterization **2019**, 435-468
- 47 Stimuli-Responsive Graphene-Based Matrices for Smart Therapeutics **2019**, 507-533
- 46 Application of Graphene Materials in Molecular Diagnostics **2019**, 535-560
- 45 Graphene Oxide Membranes for Liquid Separation **2019**, 561-573
- 44 Graphene-Based Biosensors: Fundamental Concepts, Outline of Utility, and Future Scopes **2019**, 1-14
- 43 Graphene for Electrochemical Biosensors in Biomedical Applications **2019**, 15-28
- 42 Chlorophyll and Graphene: A New Paradigm of Biomimetic Symphony **2019**, 295-322
- 41 Application of Porous Graphene in Electrochemical Sensors and Biosensors **2019**, 117-142
- 40 Reduced Graphene Oxide for Biosensing and Electrocatalytic Applications **2019**, 143-179
- 39 Recent Progress in the Graphene-Based Electrochemical Biosensors Development **2019**, 181-232
- 38 Graphene Quantum Dots: A New Member of the Graphene Family: Structure, Properties, and Biomedical Applications **2019**, 267-299
- 37 Functionalized Graphene Nanomaterials as Biocatalysts: Recent Developments and Future Prospects **2019**, 301-323
- 36 Continuous Graphene Oxide Fiber and Its Applications **2019**, 409-431

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- 34 Electronic Transport upon Adsorption of Biomolecules on Graphene **2019**, 767-792
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