Cengiz Özkan

List of Publications by Year in Descending Order

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	Robust Nanocapacitors Based on Wafer-Scale Single-Crystal Hexagonal Boron Nitride Monolayer Films. *ACS Applied Nano Materials*, **2021**, 4, 5685-5695	5.6	1
285	State-of-health prediction for lithium-ion batteries via electrochemical impedance spectroscopy and artificial neural networks. *Energy Storage*, **2020**, 2, e186	2.8	7
284	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	
283	Growth of High-Quality Hexagonal Boron Nitride Single-Layer Films on Carburized Ni Substrates for Metal-Insulator-Metal Tunneling Devices. *ACS Applied Materials & Interfaces*, **2020**, 12, 35318-35327	9.5	5
282	Scalable coral-like silicon powders with three-dimensional interconnected structures for lithium ion battery anodes. *Energy Storage*, **2020**, 2, e187	2.8	1
281	Adaptive fast charging methodology for commercial Li-ion batteries based on the internal resistance spectrum. *Energy Storage*, **2020**, 2, e141	2.8	11
280	Suppression of the Shuttle Effect in Li□ Batteries via Magnetron Sputtered TiO2 Thin Film at the Electrode□Electrolyte Interface. *ACS Applied Energy Materials*, **2020**, 3, 1515-1529	6.1	11
279	Novel Survivin Peptides Screened With Computer Algorithm Induce Cytotoxic T Lymphocytes With Higher Cytotoxic Efficiency to Cancer Cells. *Frontiers in Molecular Biosciences*, **2020**, 7, 570003	5.6	2
278	Upcycling of polyethylene terephthalate plastic waste to microporous carbon structure for energy storage. *Energy Storage*, **2020**, 2, e201	2.8	11
277	Graphene-Based Nanocomposite Materials for the Design of Electrochemical Sensors and Their Applications **2019**, 535-568		0
276	Supramolecular Graphene-Based Systems for Drug Delivery **2019**, 443-479		
275	Tumor growth inhibition by mSTEAP peptide nanovaccine inducing augmented CD8 T cell immune responses. *Drug Delivery and Translational Research*, **2019**, 9, 1095-1105	6.2	7
274	Scaling sorbent materials for real oil-sorbing applications and environmental disasters. *MRS Energy & Sustainability*, **2019**, 6, 1	2.2	5
273	Graphite in Metallic Materials Growths, Structures, and Defects of Spheroidal Graphite in Ductile Iron **2019**, 1-39		
272	Biological, Biomedical, and Medical Applications of Graphene and Graphene-Based Materials (G-bMs) **2019**, 1-41		1
271	Adaptation and Viability of Graphene-Based Materials in Clinical Improvement **2019**, 79-98		
270	Modeling of Graphene-Based Electronics: From Material Properties to Circuit Simulations **2019**, 73-120		

269	Graphene Oxide Multilayers Obtained from Bamboo: New Synthesis Method, Basic Properties, and Future Electronic Applications **2019**, 191-236	1
268	Topological Design of Graphene **2019**, 1-44	2
267	Graphene in Bioelectronics **2019**, 253-262	
266	Graphene-Based Advanced Nanostructures **2019**, 471-493	
265	Exfoliated Graphene-Based 2D Materials: Synthesis and Catalytic Behaviors **2019**, 529-558	4
264	Graphene Metamaterial Electron Optics: Excitation Processes and Electro-Optical Modulation **2019**, 263-296	0
263	Synthesis, Characterization, and Applications of Polymer/Graphene Oxide Composite Materials **2019**, 541-573	
262	Graphene-Based Materials for Advanced Lithium-Ion Batteries **2019**, 197-218	
261	Nitrogen-Doped Carbon Nanostructures as Oxygen Reduction Reaction (ORR) and Oxygen Evolution Reaction (OER) Electrocatalysts in Acidic Media **2019**, 373-413	1
260	Electrochemical Biosensors Based on Green Synthesized Graphene and Graphene Nanocomposites **2019**, 233-296	0
259	Graphene Composites **2019**, 1-25	0
258	Graphene-Based Biosensors in Agro-Defense: Food Safety and Animal Health Diagnosis **2019**, 29-57	1
257	Buckling Characteristics of Bilayer Graphene Sheets Subjected to Humid Thermomechanical Loading **2019**, 433-454	1
256	Features and Prospects for Epitaxial Graphene on SiC **2019**, 153-199	1
255	Graphene and Graphene-Based Hybrid Composites for Advanced Rechargeable Battery Electrodes **2019**, 147-196	
254	Graphene-Based Electrochemical Aptasensors **2019**, 465-482	1
253	Graphene and Graphene Nanocomposite-Based Electrochemical Sensors **2019**, 631-661	1
252	Proximity-Induced Topological Transition and Strain-Induced Charge Transfer in Graphene/MoS2 Bilayer Heterostructures **2019**, 1-28	2

251	Graphene□SiC Reinforced Hybrid Composite Foam: Response to High Strain Rate Deformation **2019**, 101-116	
250	Three-Dimensional Graphene Foams for Energy Storage Applications **2019**, 49-91	
249	Graphene Structures: From Preparations to Applications **2019**, 323-357	2
248	Graphene Molecules as Platforms for SERS Detection: A Future Perspective **2019**, 429-464	
247	Self-Organized 3D Graphene as a Robust Sensing Platform **2019**, 483-507	1
246	Interactions of Molecular Species with Graphene and Graphene Sensing **2019**, 509-533	
245	Self-Assembled Thin Films of Graphene Materials for Sensors **2019**, 569-602	
244	Electrochemically Reduced Graphene Oxide: A Smart Material for Electrochemical Sensing **2019**, 603-629	2
243	Controlling the Electromagnetic and Electrochemical Sensing Properties of Graphene via Heteroatom Doping **2019**, 663-682	2
242	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
241	Three-Dimensional Graphene-Based Structures: Production Methods, Properties, and Applications **2019**, 359-387	3
240	Finite Element Analysis of Graphene Materials **2019**, 707-730	
239	Quantitative Real-Time Evaluation of C/O Ratios and Stepwise Control of Deoxidization of Graphene Oxide Using Plasmonic-Based Electrochemical Spectroscopy **2019**, 731-765	
238	Effect of Graphene Oxide Nanosheets on the Structure and Properties of Cement Composites **2019**, 43-78	
237	Graphene-Based Synaptic Devices for Neuromorphic Applications **2019**, 99-142	
236	Graphene-Based Materials for Implants **2019**, 143-175	0
235	Ultrashort Pulse Fiber Laser Generation Using Molybdenum Disulfide and Tungsten Disulfide Saturable Absorber **2019**, 177-197	
234	Graphene-Modified Asphalt **2019**, 199-223	

215	Functionalization of Graphene with Molecules and/or Nanoparticles for Advanced Applications **2019**, 559-609	0
214	Carbon Allotropes, Between Diamond and Graphite: How to Create Semiconductor Properties in Graphene and Related Structures **2019**, 611-647	
213	Graphene at the Metal□Oxide Interface: A New Approach to Modify the Chemistry of Supported Metals **2019**, 45-71	
212	The Combinatorial Structure of Graphene **2019**, 73-94	
211	Interacting Electrons in Graphene **2019**, 95-125	
210	Computational Determination of the Properties of Graphene Nanoribbons **2019**, 127-145	
209	Synthetic Electric Fields Influence the Non-Stationary Processes in Graphene **2019**, 147-193	
208	Interaction and Manipulation of Bi Adatoms on Monolayer Epitaxial Graphene **2019**, 195-218	
207	Strain Engineering: Electromechanical Properties of Graphene **2019**, 219-243	
206	Characteristic Mechanical Responses of Graphene Membranes **2019**, 245-271	
205	Graphene and Its Derivatives as Platforms for MALDI-MS **2019**, 273-289	4
204	Characterization and Dynamic Manipulation of Graphene by In Situ Transmission Electron Microscopy at Atomic Scale **2019**, 291-314	
203	Methods of Synthesis and Physicochemical Properties of Fluorographenes **2019**, 63-100	
202	Peculiarities of Quasi-Particle Spectra in Graphene Nanostructures **2019**, 315-387	1
201	Complex Refractive Index (RI) of Graphene **2019**, 389-412	2
200	Fractional Quantum Hall Effect in Graphene, a Topological Approach **2019**, 413-453	
199	Graphene Plasmonic: Switching Applications **2019**, 455-505	3
198	Theoretical Study and Numerical Modeling of Graphene□s Electromagnetic Response **2019**, 507-548	

161	Chemical Reactivity and Variation in Electronic Properties of Graphene on Ni(111) and Reduced Graphene Oxide **2019**, 249-294	
160	Recent Advances in Graphene-Based Materials for Photocatalytic H2 Evolution **2019**, 415-433	
159	Graphene Thermal Functional Device and Its Property Characterization **2019**, 435-468	
158	Self- and Directed-Assembly of Metallic and Nonmetallic Fluorophors: Considerations into Graphene and Graphene Oxides for Sensing and Imaging Applications **2019**, 469-505	1
157	Stimuli-Responsive Graphene-Based Matrices for Smart Therapeutics **2019**, 507-533	
156	Application of Graphene Materials in Molecular Diagnostics **2019**, 535-560	
155	Graphene Oxide Membranes for Liquid Separation **2019**, 561-573	
154	Graphene-Based Biosensors: Fundamental Concepts, Outline of Utility, and Future Scopes **2019**, 1-14	
153	Graphene for Electrochemical Biosensors in Biomedical Applications **2019**, 15-28	
152	Chlorophyll and Graphene: A New Paradigm of Biomimetic Symphony **2019**, 295-322	
151	Trends and Frontiers in Graphene-Based (Bio)sensors for Pesticides Electroanalysis **2019**, 59-98	1
150	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
149	Application of Porous Graphene in Electrochemical Sensors and Biosensors **2019**, 117-142	
148	Reduced Graphene Oxide for Biosensing and Electrocatalytic Applications **2019**, 143-179	
147	Recent Progress in the Graphene-Based Electrochemical Biosensors Development **2019**, 181-232	
146	Recent Biosensing Applications of Graphene-Based Nanomaterials **2019**, 297-348	1
145	Graphene-Based Sensors: Applications in Electrochemical (Bio)sensing **2019**, 349-369	2
144	Graphene-Based Fiber Optic Label-Free Biosensor **2019**, 371-396	1

143	Label-Free Biosensors Based on Graphene: State-of-the-Art **2019**, 397-427		0
142	Graphene-Based Nanomaterials in Tissue Engineering and Regenerative Medicine **2019**, 637-658		3
141	Graphene Quantum Dots: A New Member of the Graphene Family: Structure, Properties, and Biomedical Applications **2019**, 267-299		
140	Functionalized Graphene Nanomaterials as Biocatalysts: Recent Developments and Future Prospects **2019**, 301-323		
139	Continuous Graphene Oxide Fiber and Its Applications **2019**, 409-431		
138	Graphene: Synthesis and Quality Optimization **2019**, 41-62		
137	Electronic Transport upon Adsorption of Biomolecules on Graphene **2019**, 767-792		
136	Three-Dimensional Graphene Materials: Synthesis and Applications in Electrocatalysts and Electrochemical Sensors **2019**, 93-145		
135	Bundled and dispersed carbon nanotube assemblies on graphite superstructures as free-standing lithium-ion battery anodes. *Carbon*, **2019**, 142, 238-244	10.4	26
134	High-Potential Metalless Nanocarbon Foam Supercapacitors Operating in Aqueous Electrolyte. *Small*, **2018**, 14, e1702444	11	9
133	Chemical vapor deposition and phase stability of pyrite on SiO2. *Journal of Materials Chemistry C*, **2018**, 6, 4753-4759	7.1	2
132	Plateau targeted conditioning: An additive-free approach towards robust SEI formation in Li-S batteries for enhanced capacity and cycle life. *Nano Energy*, **2018**, 49, 498-507	17.1	12
131	Raman investigation of the air stability of 2H polytype HfSe2 thin films. *MRS Communications*, **2018**, 8, 1191-1196	2.7	11
130	Improved electrochemical performance of LiCoO2 electrodes for high-voltage operations by Ag thin film coating via magnetron sputtering. *MRS Advances*, **2018**, 3, 3513-3518	0.7	5
129	Strain Gated Bilayer Molybdenum Disulfide Field Effect Transistor with Edge Contacts. *Scientific Reports*, **2017**, 7, 41593	4.9	6
128	Silicon Derived from Glass Bottles as Anode Materials for Lithium Ion Full Cell Batteries. *Scientific Reports*, **2017**, 7, 917	4.9	41
127	Silicon/polypyrrole nanocomposite wrapped with graphene for lithium ion anodes. *MRS Advances*, **2017**, 2, 3323-3327	0.7	1
126	Silicon and Carbon Nanocomposite Spheres with Enhanced Electrochemical Performance for Full Cell Lithium Ion Batteries. *Scientific Reports*, **2017**, 7, 44838	4.9	53

125	Effect of intermittent oxygen exposure on chemical vapor deposition of graphene. *MRS Communications*, **2017**, 7, 826-831	2.7	4
124	Kinetics and electrochemical evolution of binary silicon–polymer systems for lithium ion batteries. *RSC Advances*, **2017**, 7, 36541-36549	3.7	18
123	Chelant Enhanced Solution Processing for Wafer Scale Synthesis of Transition Metal Dichalcogenide Thin Films. *Scientific Reports*, **2017**, 7, 6419	4.9	13
122	Advanced Sulfur-Silicon Full Cell Architecture for Lithium Ion Batteries. *Scientific Reports*, **2017**, 7, 17264	4.9	14
121	Chemical vapor deposition of partially oxidized graphene. *RSC Advances*, **2017**, 7, 32209-32215	3.7	3
120	Facile and Scalable Synthesis of Copolymer-Sulfur Composites as Cathodes for High Performance Lithium-Sulfur Batteries. *MRS Advances*, **2017**, 2, 3271-3276	0.7	7
119	A Study of Diffusion in Lithium-ion Electrodes Under Fast Charging Using Electrochemical Impedance Spectroscopy. *MRS Advances*, **2017**, 2, 3309-3315	0.7	2
118	Graphene/Ni Wire Foam with Multivalent Manganese Oxide Catalysts for Li-O2 Battery Cathode. *MRS Advances*, **2017**, 2, 3403-3407	0.7	1
117	Facile Synthesis of Nickel Nanofoam Architectures for Applications in Li-Ion Batteries. *Energy Technology*, **2017**, 5, 422-427	3.5	10
116	High energy and power density Li–O2 battery cathodes based on amorphous RuO2 loaded carbon free and binderless nickel nanofoam architectures. *RSC Advances*, **2016**, 6, 81712-81718	3.7	18
115	Two-Dimensional Layered Semiconductor Tungsten Disulfide and Molybdenum-Tungsten Disulfide: Synthesis, Materials Properties and Electronic Structure. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 8419-8423	1.3	2
114	Toxicology Study of Single-walled Carbon Nanotubes and Reduced Graphene Oxide in Human Sperm. *Scientific Reports*, **2016**, 6, 30270	4.9	35
113	Template Free and Binderless NiO Nanowire Foam for Li-ion Battery Anodes with Long Cycle Life and Ultrahigh Rate Capability. *Scientific Reports*, **2016**, 6, 29183	4.9	50
112	Carbon-Coated, Diatomite-Derived Nanosilicon as a High Rate Capable Li-ion Battery Anode. *Scientific Reports*, **2016**, 6, 33050	4.9	38
111	Scalable Multifunctional Ultra-thin Graphite Sponge: Free-standing, Superporous, Superhydrophobic, Oleophilic Architecture with Ferromagnetic Properties for Environmental Cleaning. *Scientific Reports*, **2016**, 6, 21858	4.9	9
110	Large area synthesis, characterization, and anisotropic etching of two dimensional tungsten disulfide films. *Materials Chemistry and Physics*, **2016**, 176, 52-57	4.4	8
109	Scalable, Binderless, and Carbonless Hierarchical Ni Nanodendrite Foam Decorated with Hydrous Ruthenium Dioxide for 1.6 V Symmetric Supercapacitors. *Advanced Materials Interfaces*, **2016**, 3, 1500503	4.6	20
108	Fundamentals of lateral and vertical heterojunctions of atomically thin materials. *Nanoscale*, **2016**, 8, 3870-87	7.7	90

107	Ultrafast high energy supercapacitors based on pillared graphene nanostructures. *Journal of Materials Chemistry A*, **2016**, 4, 3356-3361	13	19
106	Structural and Compositional Characterization of Fungus-Derived Pyrolytic Carbon Architectures. *Advances in Materials Science and Engineering*, **2016**, 2016, 1-8	1.5	2
105	Phase Engineering of 2D Tin Sulfides. *Small*, **2016**, 12, 2998-3004	11	37
104	Making one-dimensional electrical contacts to molybdenum disulfide-based heterostructures through plasma etching. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 1358-1364	1.6	22
103	Facile Synthesis and Characterization of Two Dimensional Layered Tin Disulfide Nanowalls. *Journal of Electronic Materials*, **2016**, 45, 2115-2120	1.9	4
102	Towards flexible binderless anodes: silicon/carbon fabrics via double-nozzle electrospinning. *Chemical Communications*, **2016**, 52, 11398-11401	5.8	42
101	Monodisperse porous silicon spheres as anode materials for lithium ion batteries. *Scientific Reports*, **2015**, 5, 8781	4.9	99
100	Free-standing Ni□NiO nanofiber cloth anode for high capacity and high rate Li-ion batteries. *Nano Energy*, **2015**, 18, 47-56	17.1	46
99	Bio-Derived, Binderless, Hierarchically Porous Carbon Anodes for Li-ion Batteries. *Scientific Reports*, **2015**, 5, 14575	4.9	83
98	Two step growth phenomena of molybdenum disulfide-tungsten disulfide heterostructures. *Chemical Communications*, **2015**, 51, 11213-6	5.8	21
97	Towards scalable binderless electrodes: carbon coated silicon nanofiber paper via Mg reduction of electrospun SiO2 nanofibers. *Scientific Reports*, **2015**, 5, 8246	4.9	55
96	Improved functionality of graphene and carbon nanotube hybrid foam architecture by UV-ozone treatment. *Nanoscale*, **2015**, 7, 7045-50	7.7	24
95	Stable cycling of SiO□nanotubes as high-performance anodes for lithium-ion batteries. *Scientific Reports*, **2014**, 4, 4605	4.9	139
94	Hydrous ruthenium oxide nanoparticles anchored to graphene and carbon nanotube hybrid foam for supercapacitors. *Scientific Reports*, **2014**, 4, 4452	4.9	356
93	Scalable synthesis of nano-silicon from beach sand for long cycle life Li-ion batteries. *Scientific Reports*, **2014**, 4, 5623	4.9	145
92	Silicon decorated cone shaped carbon nanotube clusters for lithium ion battery anodes. *Small*, **2014**, 10, 3389-96	11	59
91	Hybrid carbon nanotube and graphene nanostructures for lithium ion battery anodes. *Nano Energy*, **2014**, 3, 113-118	17.1	95
90	Synthesis, characterization, and electronic structure of few-layer MoSe2 granular films. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 2671-2676	1.6	10

89	Wafer Scale Synthesis and High Resolution Structural Characterization of Atomically Thin MoS2 Layers. *Advanced Functional Materials*, **2014**, 24, 7461-7466	15.6	87
88	Synthesis of Atomically Thin ${bf MoS}_{bf 2}$ Triangles and Hexagrams and Their Electrical Transport Properties. *IEEE Nanotechnology Magazine*, **2014**, 13, 749-754	2.6	20
87	Oxygen etching of thick MoS2 films. *Chemical Communications*, **2014**, 50, 11226-9	5.8	45
86	Silicon Oxide Contamination of Graphene Sheets Synthesized on Copper Substrates via Chemical Vapor Deposition. *Advanced Science, Engineering and Medicine*, **2014**, 6, 1070-1075	0.6	16
85	Assembled graphene oxide and single-walled carbon nanotube ink for stable supercapacitors. *Journal of Materials Research*, **2013**, 28, 918-926	2.5	31
84	Nanomedicine and the Nose **2013**, 589-597		
83	Chrysanthemum like carbon nanofiber foam architectures for supercapacitors. *Journal of Materials Research*, **2013**, 28, 912-917	2.5	13
82	Intertwined nanocarbon and manganese oxide hybrid foam for high-energy supercapacitors. *Small*, **2013**, 9, 3714-21	11	51
81	Synchronous chemical vapor deposition of large-area hybrid graphene□carbon nanotube architectures. *Journal of Materials Research*, **2013**, 28, 958-968	2.5	14
80	Three dimensional few layer graphene and carbon nanotube foam architectures for high fidelity supercapacitors. *Nano Energy*, **2013**, 2, 294-303	17.1	236
79	Photoinduced Electron Transfer Between Pyridine Coated Cadmium Selenide Quantum Dots and Single Sheet Graphene. *Advanced Functional Materials*, **2013**, 23, 5199-5211	15.6	54
78	Nanoparticles for Imaging and Therapy: Functionalization, Endocytosis and Characterization. *Regenerative Medicine, Artificial Cells and Nanomedicine*, **2013**, 355-380		1
77	Non-Invasive High-Throughput Metrology of Functionalized Graphene Sheets. *Advanced Functional Materials*, **2012**, 22, 4519-4525	15.6	12
76	Transmission Near-Field Scanning Optical Microscopy Investigation on Cellular Uptake Behavior of Iron Oxide Nanoparticles. *BioNanoScience*, **2012**, 2, 135-143	3.4	3
75	Tuning electron transport in graphene-based field-effect devices using block co-polymers. *Small*, **2012**, 8, 1073-80	11	21
74	Industrial graphene metrology. *Nanoscale*, **2012**, 4, 3807-19	7.7	19
73	Block Copolymer Assisted Fabrication of Graphene/Carbon Nanotube Hybrid Architectures and Their Application in Supercapacitors. *Materials Research Society Symposia Proceedings*, **2012**, 1440, 43		
72	Graphene Metrology Using Fluorescence Quenching of Different Fluorescent Dyes. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 51-56		1

71	Synthesis of Three Dimensional Carbon Nanostructure Foams for Supercapacitors. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 85-90		
70	MnO2 Decorated Three Dimensional Graphene Heterostructures for Supercapacitor Electrodes. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 63-68		1
69	Fabrication and Surface Morphology of YBCO Superconducting Thin films on STO Buffered Si Substrates. *Materials Research Society Symposia Proceedings*, **2012**, 1454, 129-134		
68	Effects of Process Tube Position on Properties of Graphene Layers. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 57-62		2
67	Large-area Metrology of CVD-grown Graphene Layers on Copper Foil Substrates. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 45-49		
66	Hybrid low resistance ultracapacitor electrodes based on 1-pyrenebutyric acid functionalized centimeter-scale graphene sheets. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 6913-20	1.3	22
65	Supercapacitors based on pillared graphene nanostructures. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 1770-5	1.3	27
64	Surface Characterization: Non-Invasive High-Throughput Metrology of Functionalized Graphene Sheets (Adv. Funct. Mater. 21/2012). *Advanced Functional Materials*, **2012**, 22, 4402-4402	15.6	
63	Synthesis of Graphene-CNT Hybrid Nanostructures. *Materials Research Society Symposia Proceedings*, **2011**, 1344, 1		3
62	Synthesis of Graphene-ZnO Heterogeneous Nanostructures by Chemical Vapor Deposition. *Materials Research Society Symposia Proceedings*, **2011**, 1348, 145601		
61	Molecular absorption and photodesorption in pristine and functionalized large-area graphene layers. *Nanotechnology*, **2011**, 22, 355701	3.4	30
60	Electrochemical supercapacitor based on flexible pillar graphene nanostructures **2011**,		2
59	Centimeter-scale high-resolution metrology of entire CVD-grown graphene sheets. *Small*, **2011**, 7, 2598-606	11	25
58	Graphene Metrology: Centimeter-Scale High-Resolution Metrology of Entire CVD-Grown Graphene Sheets (Small 18/2011). *Small*, **2011**, 7, 2598-2598	11	1
57	Analysis of light scattering from human breast tissue using a custom dual-optical scanning near-field optical microscope. *Journal of Biophotonics*, **2011**, 4, 193-205	3.1	
56	Label free DNA detection using large area graphene based field effect transistor biosensors. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 5258-63	1.3	36
55	Data Transmission Performance of Few-Layer Graphene Ribbons. *Materials Research Society Symposia Proceedings*, **2011**, 1344, 1		
54	Binary Data Transmission Performance of Sub-20 nm Indium Antimonide Nanowires. *Materials Research Society Symposia Proceedings*, **2011**, 1350, 1		

53	Diameter Dependent Current-Voltage Characteristics of InSb Nanowires. *Materials Research Society Symposia Proceedings*, **2011**, 1350, 1		
52	Band energy structure arrangement for organic solar cells with metalized deoxyribonucleic acid strands on anode electrode. *Materials Research Society Symposia Proceedings*, **2011**, 1323, 23		
51	Rapid large-scale Characterization of CVD Graphene Layers on Glass using Fluorescence Quenching Microscopy. *Materials Research Society Symposia Proceedings*, **2011**, 1344, 1		
50	Effect of Light Intensity on Schottky Barrier Widths and I-V Characteristics of Polymer Heterojunction Photodiodes. *Materials Research Society Symposia Proceedings*, **2011**, 1359, 107		1
49	Au-assisted Growth of Indium Antimonide Nanowires by Chemical Vapor Deposition: Temperature and Growth Duration Effects. *Materials Research Society Symposia Proceedings*, **2011**, 1350, 1		1
48	DNA as an Engineering Material: From Assembly to Computation on Silicon. *Materials Research Society Symposia Proceedings*, **2011**, 1346, 1		
47	Early-Effect like Behavior in Space Charge Regions of Organic Bulk-Heterojunction Photodiodes. *Materials Research Society Symposia Proceedings*, **2011**, 1360, 103801		2
46	Label Free DNA Detection Using Large Area Graphene-Based FET Biosensors. *Materials Research Society Symposia Proceedings*, **2011**, 1359, 155		1
45	Improved Hole Collection in Polymer Heterojunction Solar Cells with DNA/Pt-DNA Layers. *Materials Research Society Symposia Proceedings*, **2011**, 1322, 63		
44	Photo-electrical Effect of Pristine and Functionalized Graphene Grown by Chemical Vapor Deposition. *Materials Research Society Symposia Proceedings*, **2011**, 1362, 1		
43	Graphene Role as Platinum Support for CO and Formic Acid Electrooxidation. *Materials Research Society Symposia Proceedings*, **2011**, 1326, 1		
42	DC/AC Performance Analysis of Indium Antimonide Nanowires. *Materials Research Society Symposia Proceedings*, **2011**, 1336, 30701		
41	DNA Gating effect from single layer graphene. *Materials Research Society Symposia Proceedings*, **2011**, 1344, 1		
40	Experimental Demonstration of Hopfield Neural Network using DNA molecules. *Materials Research Society Symposia Proceedings*, **2011**, 1346, 1		
39	Ultracapacitors Based on Graphene/MWNT Composite Films. *Materials Research Society Symposia Proceedings*, **2011**, 1344, 1		
38	Block Co-polymer on Graphene: Doping of Graphene and a Robust Chemical Sensor. *Materials Research Society Symposia Proceedings*, **2011**, 1362, 1		
37	Effect of incident light power on Schottky barriers and I-V characteristics of organic bulk heterojunction photodiodes. *Applied Physics Letters*, **2010**, 96, 143301	3.4	5
36	Heterogeneous graphene nanostructures: ZnO nanostructures grown on large-area graphene layers. *Small*, **2010**, 6, 2448-52	11	79

35	Gating of single-layer graphene with single-stranded deoxyribonucleic acids. *Small*, **2010**, 6, 1150-5	11	48
34	Periodic alignment of Si quantum dots on hafnium oxide coated single wall carbon nanotubes. *Applied Physics Letters*, **2009**, 94, 123109	3.4	4
33	Magnetic force microscopy of iron oxide nanoparticles and their cellular uptake. *Biotechnology Progress*, **2009**, 25, 923-8	2.8	20
32	A surface-charge study on cellular-uptake behavior of F3-peptide-conjugated iron oxide nanoparticles. *Small*, **2009**, 5, 1990-6	11	85
31	Synthesis and characterization of polyamidoamine dendrimer-coated multi-walled carbon nanotubes and their application in gene delivery systems. *Nanotechnology*, **2009**, 20, 125101	3.4	119
30	Templated Fabrication of InSb Nanowires for Nanoelectronics. *Journal of Nanomaterials*, **2008**, 2008, 1-5	3.2	19
29	Effects of Carbon Nanotubes on Photoluminescence Properties of Quantum Dots. *Journal of Physical Chemistry C*, **2008**, 112, 939-944	3.8	80
28	Zeta potential: a surface electrical characteristic to probe the interaction of nanoparticles with normal and cancer human breast epithelial cells. *Biomedical Microdevices*, **2008**, 10, 321-8	3.7	298
27	Synthesis and Characterization of Iron Oxide Derivatized Mutant Cowpea Mosaic Virus Hybrid Nanoparticles. *Advanced Materials*, **2008**, 20, 4816-4820	24	15
26	Normal and cancer breast epithelial cells endocytosis study of nanoparticles by combined AFM and NSOM microscopy **2007**,		2
25	DNA-Templated Ordered Array of Gold Nanorods in One and Two Dimensions. *Journal of Physical Chemistry C*, **2007**, 111, 12572-12576	3.8	56
24	Cell adhesion measurement by laser-induced stress waves. *Journal of Applied Physics*, **2006**, 100, 084701	2.5	24
23	Cell Based Sensing Technologies **2006**, 55-92		
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