

Jyongsik Jang

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.

287 papers	14,464 citations	66 h-index	103 g-index
289 ext. papers	15,715 ext. citations	7.9 avg, IF	7.07 L-index

#	Paper	IF	Citations
287	Optorheological Characteristics of Photosynthetic Bacterium Suspension. <i>Langmuir</i> , 2021 , 37, 10979-10986	4.6	1
286	Fluorination of shape-controlled porous carbon nanoweb layers for ammonia gas sensor applications. <i>Carbon</i> , 2020 , 165, 185-195	10.4	6
285	Fabrication of Platinum Villus Overlaid Porous Carbon Nanoweb Layers for Hydrogen Gas Sensor Application. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902006	4.6	2
284	Ruthenium Decorated Polypyrrole Nanoparticles for Highly Sensitive Hydrogen Gas Sensors Using Component Ratio and Protonation Control. <i>Polymers</i> , 2020 , 12,	4.5	2
283	Comparative Study on the Formation and Oxidation-Level Control of Three-Dimensional Conductive Nanofilms for Gas Sensor Applications. <i>ACS Omega</i> , 2020 , 5, 2992-2999	3.9	3
282	Peptide hormone sensors using human hormone receptor-carrying nanovesicles and graphene FETs. <i>Scientific Reports</i> , 2020 , 10, 388	4.9	7
281	Facile synthesis of palladium-decorated three-dimensional conducting polymer nanofilm for highly sensitive H ₂ gas sensor. <i>Journal of Materials Science</i> , 2020 , 55, 5156-5165	4.3	9
280	Aptamer-Functionalized Three-Dimensional Carbon Nanoweb for Ultrasensitive and Free-Standing PDGF Biosensor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20882-20890	9.5	11
279	Fluorine plasma treatment on carbon-based perovskite solar cells for rapid moisture protection layer formation and performance enhancement. <i>Chemical Communications</i> , 2020 , 56, 535-538	5.8	14
278	Comparative Study on the Effect of Protonation Control for Resistive Gas Sensor Based on Close-Packed Polypyrrole Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1850	2.6	4
277	Facile Synthesis of CoO-Incorporated Multichannel Carbon Nanofibers for Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20613-20622	9.5	24
276	Ultrasensitive, Selective, and Highly Stable Bioelectronic Nose That Detects the Liquid and Gaseous Cadaverine. <i>Analytical Chemistry</i> , 2019 , 91, 12181-12190	7.8	18
275	Fabrication of N-doped multidimensional carbon nanofibers for high-performance cortisol biosensors. <i>Biosensors and Bioelectronics</i> , 2019 , 131, 30-36	11.8	21
274	Highly omnidirectional and frequency tunable multilayer graphene-based monopole patch antennas. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7915-7921	7.1	5
273	Fabrication and Optimization of Conductive Paper Based on Screen-Printed Polyaniline/Graphene Patterns for Nerve Agent Detection. <i>ACS Omega</i> , 2019 , 4, 5586-5594	3.9	16
272	Highly Crystalline Perovskite-Based Photovoltaics via Two-Dimensional Liquid Cage Annealing Strategy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5808-5814	16.4	21
271	A highly sensitive wireless nitrogen dioxide gas sensor based on an organic conductive nanocomposite paste. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8451-8459	13	30

270	High-performance hybrid supercapacitors based on novel Co ₃ O ₄ /Co(OH) ₂ hybrids synthesized with various-sized metal-organic framework templates. <i>Journal of Power Sources</i> , 2019 , 423, 115-124	8.9	27
269	Activation of Haa1 and War1 transcription factors by differential binding of weak acid anions in <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 2019 , 47, 1211-1224	20.1	24
268	Improved electrochemical performances of MOF-derived NiCo layered double hydroxide complexes using distinctive hollow-in-hollow structures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17637-17647	13.7	47
267	Highly porous structured polyaniline nanocomposites for scalable and flexible high-performance supercapacitors. <i>Nanoscale</i> , 2019 , 11, 6462-6470	7.7	23
266	Conducting Nanomaterial Sensor Using Natural Receptors. <i>Chemical Reviews</i> , 2019 , 119, 36-93	68.1	100
265	Highly sensitive copper nanowire conductive electrode for nonenzymatic glucose detection. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 358-363	6.3	19
264	Highly selective FET-type glucose sensor based on shape-controlled palladium nanoflower-decorated graphene. <i>Sensors and Actuators B: Chemical</i> , 2018 , 264, 216-223	8.5	25
263	Fabrication of Uniform Wrinkled Silica Nanoparticles and Their Application to Abrasives in Chemical Mechanical Planarization. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11843-11851	9.5	22
262	Synthesis of Hierarchical Silica/Titania Hollow Nanoparticles and Their Enhanced Electroresponsive Activity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6570-6579	9.5	15
261	Superfast Room-Temperature Activation of SnO Thin Films via Atmospheric Plasma Oxidation and their Application in Planar Perovskite Photovoltaics. <i>Advanced Materials</i> , 2018 , 30, 1704825	24	58
260	Selective growth of layered perovskites for stable and efficient photovoltaics. <i>Energy and Environmental Science</i> , 2018 , 11, 952-959	35.4	233
259	An ultra-sensitive, flexible and transparent gas detection film based on well-ordered flat polypyrrole on single-layered graphene. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2257-2263	13	25
258	Multidimensional Conductive Nanofilm-Based Flexible Aptasensor for Ultrasensitive and Selective HBsAg Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28412-28419	9.5	25
257	Single/Dual Alkaline Earth Metal-Doped Hollow Nanoparticles as Nanocarrier for Accelerating Neurite Development by Activating pERK and pJNK. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800132	3.1	1
256	Efficient and moisture-resistant hole transport layer for inverted perovskite solar cells using solution-processed polyaniline. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6250-6256	7.1	21
255	Effect of the linker on the performance of organic photovoltaic devices based on push-pull D-A molecules. <i>New Journal of Chemistry</i> , 2018 , 42, 11458-11464	3.6	8
254	High-performance bioelectronic tongue using ligand binding domain T1R1 VFT for umami taste detection. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 628-636	11.8	32
253	A highly stable and efficient carbon electrode-based perovskite solar cell achieved via interfacial growth of 2D PEA ₂ PbI ₄ perovskite. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24560-24568	13	49

252	Synthesis and Electroresponse Activity of Porous Polypyrrole/Silica-Titania Core/Shell Nanoparticles. <i>Langmuir</i> , 2018 , 34, 15773-15782	4	11
251	Facile synthesis of size-controlled FeO nanoparticle-decorated carbon nanotubes for highly sensitive HS detection.. <i>RSC Advances</i> , 2018 , 8, 31874-31880	3.7	7
250	Dual electric and magnetic responsivity of multilayered magnetite-embedded core/shell silica/titania nanoparticles with outermost silica shell. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10241-10249	7.1	12
249	Sulfur-Immobilized, Activated Porous Carbon Nanotube Composite Based Cathodes for Lithium-Sulfur Batteries. <i>Small</i> , 2017 , 13, 1602984	11	64
248	Graphene Oxide Wrapped SiO ₂ /TiO ₂ Hollow Nanoparticles Loaded with Photosensitizer for Photothermal and Photodynamic Combination Therapy. <i>Chemistry - A European Journal</i> , 2017 , 23, 3719-3727	4.8	33
247	High-Performance Three-Dimensional Mesoporous Graphene Electrode for Supercapacitors using Lyophilization and Plasma Reduction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5222-5230	9.5	29
246	High performance asymmetric supercapacitor twisted from carbon fiber/MnO ₂ and carbon fiber/MoO ₃ . <i>Carbon</i> , 2017 , 116, 470-478	10.4	181
245	Large Grain-Based Hole-Blocking Layer-Free Planar-Type Perovskite Solar Cell with Best Efficiency of 18.20. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8113-8120	9.5	59
244	High-Density Single-Layer Coating of Gold Nanoparticles onto Multiple Substrates by Using an Intrinsically Disordered Protein of Synuclein for Nanoapplications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8519-8532	9.5	8
243	Fabrication of monodisperse nitrogen-doped carbon double-shell hollow nanoparticles for supercapacitors. <i>RSC Advances</i> , 2017 , 7, 20694-20699	3.7	9
242	Dual external field-responsive polyaniline-coated magnetite/silica nanoparticles for smart fluid applications. <i>Chemical Communications</i> , 2017 , 53, 6645-6648	5.8	8
241	Dopamine Receptor D1 Agonism and Antagonism Using a Field-Effect Transistor Assay. <i>ACS Nano</i> , 2017 , 11, 5950-5959	16.7	19
240	Fabrication of a silica/titania hollow nanorod and its electroresponsive activity. <i>RSC Advances</i> , 2017 , 7, 19754-19763	3.7	23
239	Electrospun three-layered polymer nanofiber-based porous carbon nanotubes for high-capacity energy storage. <i>RSC Advances</i> , 2017 , 7, 201-207	3.7	11
238	Ultrasensitive and Selective Organic FET-type Nonenzymatic Dopamine Sensor Based on Platinum Nanoparticles-Decorated Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39526-39533	9.5	42
237	Enhanced Electrorheological Performance of Mixed Silica Nanomaterial Geometry. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36358-36367	9.5	6
236	Smart Fluid System Dually Responsive to Light and Electric Fields: An Electrophotorheological Fluid. <i>ACS Nano</i> , 2017 , 11, 9789-9801	16.7	10
235	ZnO quantum dot-decorated carbon nanofibers derived from electrospun ZIF-8/PVA nanofibers for high-performance energy storage electrodes. <i>Chemical Communications</i> , 2017 , 53, 11441-11444	5.8	30

234	Outstanding Performance of Hole-Blocking Layer-Free Perovskite Solar Cell Using Hierarchically Porous Fluorine-Doped Tin Oxide Substrate. <i>Advanced Energy Materials</i> , 2017 , 7, 1700749	21.8	37
233	Highly efficient perovskite solar cells incorporating NiO nanotubes: increased grain size and enhanced charge extraction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21750-21756	13	18
232	Fabrication of Shape-Controlled Palladium Nanoparticle-Decorated Electrospun Polypyrrole/Polyacrylonitrile Nanofibers for Hydrogen Peroxide Coalescing Detection. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700573	4.6	6
231	Enhanced efficiency and air-stability of NiO-based perovskite solar cells via PCBM electron transport layer modification with Triton X-100. <i>Nanoscale</i> , 2017 , 9, 16249-16255	7.7	35
230	Fabrication of a one-dimensional tube-in-tube polypyrrole/tin oxide structure for highly sensitive DMMP sensor applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17335-17340	13	27
229	Paintable Carbon-Based Perovskite Solar Cells with Engineered Perovskite/Carbon Interface Using Carbon Nanotubes Dripping Method. <i>Small</i> , 2017 , 13, 1701225	11	73
228	Highly porous carbon nanofibers co-doped with fluorine and nitrogen for outstanding supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17379-17387	13	124
227	Fabrication of sinter-free conductive Cu paste using sub-10 nm copper nanoparticles. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12507-12512	7.1	14
226	Size effects of a graphene quantum dot modified-blocking TiO ₂ layer for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16834-16842	13	50
225	Sulfur-Embedded Activated Multichannel Carbon Nanofiber Composites for Long-Life, High-Rate Lithium/Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601943	21.8	165
224	Wireless, Room Temperature Volatile Organic Compound Sensor Based on Polypyrrole Nanoparticle Immobilized Ultrahigh Frequency Radio Frequency Identification Tag. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33139-33147	9.5	48
223	Duplex Bioelectronic Tongue for Sensing Umami and Sweet Tastes Based on Human Taste Receptor Nanovesicles. <i>ACS Nano</i> , 2016 , 10, 7287-96	16.7	54
222	Enhancement of the rate performance of plasma-treated platelet carbon nanofiber anodes in lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 4810-4817	3.7	1
221	One-pot synthesis of multidimensional conducting polymer nanotubes for superior performance field-effect transistor-type carcinoembryonic antigen biosensors. <i>RSC Advances</i> , 2016 , 6, 14335-14343	3.7	18
220	SiO ₂ /TiO ₂ based hollow nanostructures as scaffold layers and Al-doping in the electron transfer layer for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1306-1311	13	40
219	Highly ordered, polypyrrole-coated Co(OH) ₂ architectures for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6603-6609	13	46
218	Morphology-controlled mesoporous SiO ₂ nanorods for efficient scaffolds in organo-metal halide perovskite solar cells. <i>Chemical Communications</i> , 2016 , 52, 4231-4	5.8	27
217	Highly sensitive, wearable and wireless pressure sensor using free-standing ZnO nanoneedle/PVDF hybrid thin film for heart rate monitoring. <i>Nano Energy</i> , 2016 , 22, 95-104	17.1	131

216	A comparative study of the electrorheological properties of various N-doped nanomaterials using ammonia plasma treatment. <i>Chemical Communications</i> , 2016 , 52, 4808-11	5.8	15
215	Enhanced electrorheological activity of polyaniline coated mesoporous silica with high aspect ratio. <i>Journal of Colloid and Interface Science</i> , 2016 , 470, 237-244	9.3	31
214	Electrorheological performance of multigram-scale mesoporous silica particles with different aspect ratios. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1713-1719	7.1	36
213	Fabrication of a polyaniline/MoS ₂ nanocomposite using self-stabilized dispersion polymerization for supercapacitors with high energy density. <i>RSC Advances</i> , 2016 , 6, 27460-27465	3.7	60
212	Hierarchical mesoporous silica nanoparticles as superb light scattering materials. <i>Chemical Communications</i> , 2016 , 52, 2165-8	5.8	25
211	Antibacterial performance of various amine functional polymers coated silica nanoparticles. <i>Polymer</i> , 2016 , 83, 223-229	3.9	27
210	Size-controllable ultrathin carboxylated polypyrrole nanotube transducer for extremely sensitive 17 β -estradiol FET-type biosensors. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 5025-5034	7.3	23
209	High Performance Flexible Actuator of Urchin-Like ZnO Nanostructure/Polyvinylene fluoride Hybrid Thin Film with Graphene Electrodes for Acoustic Generator and Analyzer. <i>Small</i> , 2016 , 12, 2567-74	11	9
208	Multidimensional Polyaniline/Reduced Graphene Oxide/Silica Nanocomposite for Efficient Supercapacitor Electrodes. <i>ChemNanoMat</i> , 2016 , 2, 236-241	3.5	11
207	Dual Stimuli-Responsive Smart Fluid of Graphene Oxide-Coated Iron Oxide/Silica Core/Shell Nanoparticles. <i>Chemistry of Materials</i> , 2016 , 28, 2624-2633	9.6	37
206	Synergistic effects of three-dimensional orchid-like TiO ₂ nanowire networks and plasmonic nanoparticles for highly efficient mesoscopic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7322-7329	13	26
205	C4F8 plasma treatment as an effective route for improving rate performance of natural/synthetic graphite anodes in lithium ion batteries. <i>Carbon</i> , 2016 , 103, 28-35	10.4	26
204	Ultrasensitive Bisphenol A Field-Effect Transistor Sensor Using an Aptamer-Modified Multichannel Carbon Nanofiber Transducer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6602-10	9.5	53
203	Hierarchical core/shell Janus-type Fe ₂ O ₃ /PEDOT nanoparticles for high performance flexible energy storage devices. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8263-8271	13	44
202	Electro-response of MoS ₂ Nanosheets-Based Smart Fluid with Tailorable Electrical Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24221-9	9.5	35
201	Human Dopamine Receptor-Conjugated Multidimensional Conducting Polymer Nanofiber Membrane for Dopamine Detection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28897-28903	9.5	56
200	Long-term stability improvement of light-emitting diode using highly transparent graphene oxide paste. <i>Nanoscale</i> , 2016 , 8, 17551-17559	7.7	13
199	Hexagonal NaYF ₄ :Yb(3+), Er(3+) Nanoprism-Incorporated Upconverting Layer in Perovskite Solar Cells for Near-Infrared Sunlight Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19847-52	9.5	82

198	Highly sensitive and multifunctional tactile sensor using free-standing ZnO/PVDF thin film with graphene electrodes for pressure and temperature monitoring. <i>Scientific Reports</i> , 2015 , 5, 7887	4.9	122
197	Highly Sensitive and Selective Field-Effect-Transistor NonEnzyme Dopamine Sensors Based on Pt/Conducting Polymer Hybrid Nanoparticles. <i>Small</i> , 2015 , 11, 2399-406	11	37
196	Wireless Hydrogen Smart Sensor Based on Pt/Graphene-Immobilized Radio-Frequency Identification Tag. <i>ACS Nano</i> , 2015 , 9, 7783-90	16.7	83
195	Fabrication of Various Conducting Polymers Using Graphene Oxide as a Chemical Oxidant. <i>Chemistry of Materials</i> , 2015 , 27, 6238-6248	9.6	34
194	Highly porous nanostructured polyaniline/carbon nanodots as efficient counter electrodes for Pt-free dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19018-19026	13	44
193	A Facile Synthesis of Graphene Quantum Dots via Size-Selective Precipitation and Their Application in GQD-layer Modified DSSC. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1727, 43		
192	Platinum-decorated carbon nanoparticle/polyaniline hybrid paste for flexible wideband dipole tag-antenna application. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7029-7035	13	11
191	Enhanced magnetorheological performance of highly uniform magnetic carbon nanoparticles. <i>Nanoscale</i> , 2015 , 7, 9646-54	7.7	39
190	Screen-Printable and Flexible RuO ₂ Nanoparticle-Decorated PEDOT:PSS/Graphene Nanocomposite with Enhanced Electrical and Electrochemical Performances for High-Capacity Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10213-27	9.5	122
189	Highly Flexible Energy Storage Electrodes Based on In Situ Synthesis of Graphene/Polyselenophene Nanohybrid Materials. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1727, 13		
188	The Fabrication of High-Performance Flexible Mercury Aptasensor Based on Graphene. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1727, 7		
187	Poly(vinylidene fluoride)/NH ₂ -Treated Graphene Nanodot/Reduced Graphene Oxide Nanocomposites with Enhanced Dielectric Performance for Ultrahigh Energy Density Capacitor. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9668-81	9.5	65
186	CPT Encapsulated Silica-titania Hollow Nanoparticle Targeting SK-BR-3 Cells for efficient Anticancer treatment. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1725, 35		
185	Enhanced Electroresponsive Performance of Double-Shell SiO ₂ /TiO ₂ Hollow Nanoparticles. <i>ACS Nano</i> , 2015 , 9, 4939-49	16.7	70
184	Polypropylene/Polyaniline Nanofiber/Reduced Graphene Oxide Nanocomposite with Enhanced Electrical, Dielectric, and Ferroelectric Properties for a High Energy Density Capacitor. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22301-14	9.5	75
183	An Ultrasensitive, Selective, Multiplexed Superbioelectronic Nose That Mimics the Human Sense of Smell. <i>Nano Letters</i> , 2015 , 15, 6559-67	11.5	97
182	Multidimensional MnO ₂ nanohair-decorated hybrid multichannel carbon nanofiber as an electrode material for high-performance supercapacitors. <i>Nanoscale</i> , 2015 , 7, 16026-33	7.7	44
181	Polypyrrole-coated manganese dioxide with multiscale architectures for ultrahigh capacity energy storage. <i>Energy and Environmental Science</i> , 2015 , 8, 3030-3039	35.4	102

180	High-performance field-effect transistor-type glucose biosensor based on nanohybrids of carboxylated polypyrrole nanotube wrapped graphene sheet transducer. <i>Sensors and Actuators B: Chemical</i> , 2015 , 208, 532-537	8.5	49
179	Fabrication of density-controlled graphene oxide-coated mesoporous silica spheres and their electrorheological activity. <i>Journal of Colloid and Interface Science</i> , 2015 , 438, 14-21	9.3	33
178	Electrodes: A Comparative Study on Optical, Electrical, and Mechanical Properties of Conducting Polymer-Based Electrodes (Small 41/2015). <i>Small</i> , 2015 , 11, 5497-5497	11	1
177	Highly Omnidirectional and Frequency Controllable Carbon/Polyaniline-based 2D and 3D Monopole Antenna. <i>Scientific Reports</i> , 2015 , 5, 13615	4.9	15
176	Flower-like Palladium Nanoclusters Decorated Graphene Electrodes for Ultrasensitive and Flexible Hydrogen Gas Sensing. <i>Scientific Reports</i> , 2015 , 5, 12294	4.9	65
175	Enhanced Crystallinity, Dielectric, and Energy Harvesting Performances of Surface-Treated Barium Titanate Hollow Nanospheres/PVDF Nanocomposites. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500098	4.6	46
174	A Comparative Study on Optical, Electrical, and Mechanical Properties of Conducting Polymer-Based Electrodes. <i>Small</i> , 2015 , 11, 5498-504	11	7
173	Simultaneous Chemical and Optical Patterning of Polyacrylonitrile Film by Vapor-Based Reaction. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1192-9	4.8	4
172	Enhanced Electroresponse of Alkaline Earth Metal-Doped Silica/Titania Spheres by Synergetic Effect of Dispersion Stability and Dielectric Property. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18977-84	9.5	23
171	Detection of hazardous gas using multidimensional porous iron oxide nanorods-decorated carbon nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1746-51	9.5	16
170	Human dopamine receptor nanovesicles for gate-potential modulators in high-performance field-effect transistor biosensors. <i>Scientific Reports</i> , 2014 , 4, 4342	4.9	40
169	Urchin-like polypyrrole nanoparticles for highly sensitive and selective chemiresistive sensor application. <i>Nanoscale</i> , 2014 , 6, 4188-94	7.7	46
168	Fabrication of Highly Flexible, Scalable, and High-Performance Supercapacitors Using Polyaniline/Reduced Graphene Oxide Film with Enhanced Electrical Conductivity and Crystallinity. <i>Advanced Functional Materials</i> , 2014 , 24, 2489-2499	15.6	320
167	SiO ₂ /TiO ₂ hollow nanoparticles decorated with Ag nanoparticles: enhanced visible light absorption and improved light scattering in dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2014 , 20, 4439-46	4.8	40
166	Polypyrrole nanotube embedded reduced graphene oxide transducer for field-effect transistor-type H ₂ O ₂ biosensor. <i>Analytical Chemistry</i> , 2014 , 86, 1822-8	7.8	74
165	Fabrication of water-dispersible and highly conductive PSS-doped PANI/graphene nanocomposites using a high-molecular weight PSS dopant and their application in H ₂ S detection. <i>Nanoscale</i> , 2014 , 6, 15181-95	7.7	81
164	A metal-oxide nanofiber-decorated three-dimensional graphene hybrid nanostructured flexible electrode for high-capacity electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11922	13	30
163	Enhanced electrorheological performance of a graphene oxide-wrapped silica rod with a high aspect ratio. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6010	7.1	40

162	Fabrication of amorphous carbon-coated NiO nanofibers for electrochemical capacitor applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3364-3371	13	73
161	High-sensitivity hydrogen gas sensors based on Pd-decorated nanoporous poly(aniline-co-aniline-2-sulfonic acid):poly(4-styrenesulfonic acid). <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1955-1966	13	22
160	Performance enhancement of white light-emitting diodes using an encapsulant semi-solidification method. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8525-8531	7.1	13
159	Fabrication of Ag-coated AgBr nanoparticles and their plasmonic photocatalytic applications. <i>RSC Advances</i> , 2014 , 4, 4558-4563	3.7	15
158	Enhanced electrorheological performance of barium-doped SiO ₂ /TiO ₂ hollow mesoporous nanospheres. <i>RSC Advances</i> , 2014 , 4, 6821	3.7	14
157	Fabrication of SiO ₂ /TiO ₂ double-shelled hollow nanospheres with controllable size via sol-gel reaction and sonication-mediated etching. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15420-6	9.5	29
156	Systematic investigation on charge storage behaviour of multidimensional poly(3,4-ethylenedioxythiophene) nanostructures. <i>RSC Advances</i> , 2014 , 4, 37529	3.7	28
155	Aptamer-Functionalized Multidimensional Conducting-Polymer Nanoparticles for an Ultrasensitive and Selective Field-Effect-Transistor Endocrine-Disruptor Sensors. <i>Advanced Functional Materials</i> , 2014 , 24, 6145-6153	15.6	30
154	Multi-Shell Porous TiO ₂ Hollow Nanoparticles for Enhanced Light Harvesting in Dye-sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 7619-7626	15.6	108
153	Size-controlled SiO ₂ nanoparticles as scaffold layers in thin-film perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16429-16433	13	67
152	Fabrication of barium- and strontium-doped silica/titania hollow nanoparticles and their synergetic effects on promoting neuronal differentiation by activating ERK and p38 pathways. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1097-106	10.1	6
151	The effect of nanoparticle on microdomain alignment in block copolymer thin films under an electric field. <i>Journal of Materials Science</i> , 2014 , 49, 4323-4331	4.3	6
150	In Situ Synthesis of Graphene/Polyselenophene Nanohybrid Materials as Highly Flexible Energy Storage Electrodes. <i>Chemistry of Materials</i> , 2014 , 26, 2354-2360	9.6	36
149	Graphene size control via a mechanochemical method and electroresponsive properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5531-7	9.5	41
148	Magnetically recyclable core-shell nanocatalysts for efficient heterogeneous oxidation of alcohols. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7593-7599	13	64
147	Aptamer-functionalized hybrid carbon nanofiber FET-type electrode for a highly sensitive and selective platelet-derived growth factor biosensor. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13859-65	9.5	46
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