

Byung Hee Hong

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.

215
papers

36,748
citations

74
h-index

191
g-index

226
ext. papers

39,907
ext. citations

10.6
avg, IF

6.94
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 215 | Fast and complete recovery of TMDs-decorated rGO fiber gas sensors at room temperature. <i>Applied Surface Science</i> , 2022 , 578, 151832 | 6.7 | 2 |
| 214 | Photothermally Crumpled MoS Film as an Omnidirectionally Stretchable Platform.. <i>Small Methods</i> , 2022 , e2200116 | 12.8 | 0 |
| 213 | Improved hepatoblast differentiation of human pluripotent stem cells by coffee bean derived graphene quantum dots. <i>2D Materials</i> , 2022 , 9, 035012 | 5.9 | 0 |
| 212 | A Multifunctional Tyrosine-Immobilized PAH Molecule as a Universal Cathode Interlayer Enables High-Efficiency Inverted Polymer Solar Cells (Advanced Optical Materials 21/2021). <i>Advanced Optical Materials</i> , 2021 , 9, 2170088 | 8.1 | |
| 211 | Gradual Edge Contact between Mo and MoS Formed by Graphene-Masked Sulfurization for High-Performance Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54536-54542 | 9.5 | 2 |
| 210 | Structure-controllable growth of nitrogenated graphene quantum dots via solvent catalysis for selective C-N bond activation. <i>Nature Communications</i> , 2021 , 12, 5879 | 17.4 | 9 |
| 209 | Facile Synthesis of N-Doped Graphene Quantum Dots as Novel Transfection Agents for mRNA and pDNA. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 4 |
| 208 | Stacked graphene with nanoscale wrinkles supports osteogenic differentiation of human adipose-derived stromal cells. <i>2D Materials</i> , 2021 , 8, 025034 | 5.9 | 0 |
| 207 | Photoresponse of Stacked, Multilayer MoS ₂ Films Assembled from Solution-Processed MoS ₂ Flakes. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3087-3094 | 5.6 | |
| 206 | Improved osteogenesis of human adipose-derived stromal cells on hydroxyapatite-mineralized graphene film. <i>2D Materials</i> , 2021 , 8, 035012 | 5.9 | 2 |
| 205 | Graphene Quantum Dots from Carbonized Coffee Bean Wastes for Biomedical Applications. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 7 |
| 204 | Synergistic Molecular Engineering of Hole-Injecting Conducting Polymers Overcomes Luminescence Quenching in Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021 , 9, 2100646 | 8.1 | 4 |
| 203 | Ultrahigh-strength multi-layer graphene-coated Ni film with interface-induced hardening. <i>Carbon</i> , 2021 , 178, 497-505 | 10.4 | 5 |
| 202 | Tailored Graphene Micropatterns by Wafer-Scale Direct Transfer for Flexible Chemical Sensor Platform. <i>Advanced Materials</i> , 2021 , 33, e2004827 | 24 | 20 |
| 201 | Chemical vapour deposition. <i>Nature Reviews Methods Primers</i> , 2021 , 1, | | 80 |
| 200 | Stacking-Specific Reversible Oxidation of Bilayer Graphene. <i>Chemistry of Materials</i> , 2021 , 33, 1249-1256 | 9.6 | 1 |
| 199 | Oral administration of microbiome-friendly graphene quantum dots as therapy for colitis. <i>2D Materials</i> , 2021 , 8, 025036 | 5.9 | 3 |

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| 198 | Performance enhancement of graphene assisted CNT/Cu composites for lightweight electrical cables. <i>Carbon</i> , 2021 , 179, 53-59 | 10.4 | 7 |
| 197 | Effects of Photochemical Oxidation of the Carbonaceous Additives on Li-S Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41517-41523 | 9.5 | 1 |
| 196 | A Multifunctional Tyrosine-Immobilized PAH Molecule as a Universal Cathode Interlayer Enables High-Efficiency Inverted Polymer Solar Cells. <i>Advanced Optical Materials</i> , 2021 , 9, 2101006 | 8.1 | 1 |
| 195 | Highly stable Si MOSFET-type humidity sensor with ink-jet printed graphene quantum dots sensing layer. <i>Sensors and Actuators B: Chemical</i> , 2021 , 343, 130134 | 8.5 | 1 |
| 194 | Voltage-dependent gas discrimination using self-activated graphene with Pt decoration. <i>Sensors and Actuators B: Chemical</i> , 2021 , 349, 130696 | 8.5 | 1 |
| 193 | Graphene Quantum Dots Alleviate Impaired Functions in Niemann-Pick Disease Type C in Vivo. <i>Nano Letters</i> , 2021 , 21, 2339-2346 | 11.5 | 4 |
| 192 | Chemically Robust Indium Tin Oxide/Graphene Anode for Efficient Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9074-9080 | 9.5 | 1 |
| 191 | Gold nanoparticle-mediated non-covalent functionalization of graphene for field-effect transistors. <i>Nanoscale Advances</i> , 2021 , 3, 1404-1412 | 5.1 | 3 |
| 190 | Photocatalytic Degradation of Phenol Using Chemical Vapor Deposition Graphene Column. <i>Catalysts</i> , 2020 , 10, 1251 | 4 | |
| 189 | Graphene quantum dots as anti-inflammatory therapy for colitis. <i>Science Advances</i> , 2020 , 6, eaaz2630 | 14.3 | 42 |
| 188 | Layer-Selective Synthesis of MoS and WS Structures under Ambient Conditions for Customized Electronics. <i>ACS Nano</i> , 2020 , 14, 8485-8494 | 16.7 | 19 |
| 187 | Synthesis of Large-Scale Transition Metal Dichalcogenides for Their Commercialization. <i>Applied Science and Convergence Technology</i> , 2020 , 29, 133-142 | 0.8 | 1 |
| 186 | Confocal laser scanning microscopy as a real-time quality-assessment tool for industrial graphene synthesis. <i>2D Materials</i> , 2020 , 7, 045014 | 5.9 | 2 |
| 185 | Laser-directed synthesis of strain-induced crumpled MoS ₂ structure for enhanced triboelectrification toward haptic sensors. <i>Nano Energy</i> , 2020 , 78, 105266 | 17.1 | 40 |
| 184 | Structure and properties of graphene 2020 , 5-26 | | |
| 183 | pH-Triggered Silk Fibroin/Alginate Structures Fabricated in Aqueous Two-Phase System. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5897-5905 | 5.5 | 4 |
| 182 | Au decoration of a graphene microchannel for self-activated chemoresistive flexible gas sensors with substantially enhanced response to hydrogen. <i>Nanoscale</i> , 2019 , 11, 2966-2973 | 7.7 | 38 |
| 181 | Multifunctional reduced graphene oxide-CVD graphene core-shell fibers. <i>Nanoscale</i> , 2019 , 11, 12637-12642 | 6.7 | 19 |

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| 180 | Field-Effect Transistors: Threshold Voltage Control of Multilayered MoS ₂ Field-Effect Transistors via Octadecyltrichlorosilane and their Applications to Active Matrixed Quantum Dot Displays Driven by Enhancement-Mode Logic Gates (Small 7/2019). <i>Small</i> , 2019 , 15, 1970037 | 11 | |
| 179 | Degradation Protection of Color Dyes Encapsulated by Graphene Barrier Films. <i>Chemistry of Materials</i> , 2019 , 31, 7173-7177 | 9.6 | 9 |
| 178 | 3D graphene-cellulose nanofiber hybrid scaffolds for cortical reconstruction in brain injuries. <i>2D Materials</i> , 2019 , 6, 045043 | 5.9 | 9 |
| 177 | Defect-engineered MoS ₂ with extended photoluminescence lifetime for high-performance hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10173-10178 | 7.1 | 15 |
| 176 | Thermal Effects of Microwave Reduced-Graphene-Oxide Coated Polyester Fabric on a Simulated Human Skin in Cool and Neutral Air Temperatures. <i>Fibers and Polymers</i> , 2019 , 20, 2611-2617 | 2 | 1 |
| 175 | Threshold Voltage Control of Multilayered MoS Field-Effect Transistors via Octadecyltrichlorosilane and their Applications to Active Matrixed Quantum Dot Displays Driven by Enhancement-Mode Logic Gates. <i>Small</i> , 2019 , 15, e1803852 | 11 | 14 |
| 174 | Ultrastrong Graphene-Copper Core-Shell Wires for High-Performance Electrical Cables. <i>ACS Nano</i> , 2018 , 12, 2803-2808 | 16.7 | 36 |
| 173 | Catalytic degradation of phenols by recyclable CVD graphene films. <i>Nanoscale</i> , 2018 , 10, 5840-5844 | 7.7 | 13 |
| 172 | Tension-controlled single-crystallization of copper foils for roll-to-roll synthesis of high-quality graphene films. <i>2D Materials</i> , 2018 , 5, 024002 | 5.9 | 19 |
| 171 | Solution-Processed n-Type Graphene Doping for Cathode in Inverted Polymer Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4874-4881 | 9.5 | 20 |
| 170 | Thermoelectric Properties of Thermally Reduced Graphene Oxide Observed by Tuning the Energy States. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7468-7474 | 8.3 | 15 |
| 169 | Enhanced Chemical Reactivity of Graphene by Fermi Level Modulation. <i>Chemistry of Materials</i> , 2018 , 30, 5602-5609 | 9.6 | 11 |
| 168 | Large-scale transfer-free growth of thin graphite films at low temperature for solid diffusion barriers. <i>Nanoscale</i> , 2018 , 10, 14819-14823 | 7.7 | |
| 167 | Graphene quantum dots prevent β -synucleinopathy in Parkinson's disease. <i>Nature Nanotechnology</i> , 2018 , 13, 812-818 | 28.7 | 207 |
| 166 | Roll-to-Roll Laser-Printed Graphene-Graphitic Carbon Electrodes for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1033-1038 | 9.5 | 21 |
| 165 | Silicon germanium photo-blocking layers for a-IGZO based industrial display. <i>Scientific Reports</i> , 2018 , 8, 17533 | 4.9 | 2 |
| 164 | Graphene-Enhanced Raman Spectroscopy Reveals the Controlled Photoreduction of Nitroaromatic Compound on Oxidized Graphene Surface. <i>ACS Omega</i> , 2018 , 3, 11084-11087 | 3.9 | 3 |
| 163 | Extremely stable graphene electrodes doped with macromolecular acid. <i>Nature Communications</i> , 2018 , 9, 2037 | 17.4 | 65 |

162 Graphene-Based Nanomaterials **2018**, 79-103

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|-----|--|------|-----|
| 161 | Hierarchical carbon-silicon nanowire heterostructures for the hydrogen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 13936-13941 | 7.7 | 16 |
| 160 | Double-Layer Graphene Outperforming Monolayer as Catalyst on Silicon Photocathode for Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3570-3580 | 9.5 | 15 |
| 159 | High-performance near-field electromagnetic wave attenuation in ultra-thin and transparent graphene films. <i>2D Materials</i> , 2017 , 4, 025003 | 5.9 | 30 |
| 158 | Continuous Films of Self-Assembled Graphene Quantum Dots for n-Type Doping of Graphene by UV-Triggered Charge Transfer. <i>Small</i> , 2017 , 13, 1603142 | 11 | 7 |
| 157 | Smart Contact Lenses with Graphene Coating for Electromagnetic Interference Shielding and Dehydration Protection. <i>ACS Nano</i> , 2017 , 11, 5318-5324 | 16.7 | 148 |
| 156 | Efficient heat generation in large-area graphene films by electromagnetic wave absorption. <i>2D Materials</i> , 2017 , 4, 025037 | 5.9 | 22 |
| 155 | Mapping of Bernal and non-Bernal stacking domains in bilayer graphene using infrared nanoscopy. <i>Nanoscale</i> , 2017 , 9, 4191-4195 | 7.7 | 8 |
| 154 | High-Density Single-Layer Coating of Gold Nanoparticles onto Multiple Substrates by Using an Intrinsically Disordered Protein of β -Synuclein for Nanoapplications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8519-8532 | 9.5 | 8 |
| 153 | Multiscale Modulation of Nanocrystalline Cellulose Hydrogel via Nanocarbon Hybridization for 3D Neuronal Bilayer Formation. <i>Small</i> , 2017 , 13, 1700331 | 11 | 16 |
| 152 | Multifunctional graphene oxide for bioimaging: emphasis on biological research. <i>European Journal of Nanomedicine</i> , 2017 , 9, | | 5 |
| 151 | Facile one-pot photosynthesis of stable Ag@graphene oxide nanocolloid core@shell nanoparticles with sustainable localized surface plasmon resonance properties. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10016-10022 | 7.1 | 7 |
| 150 | Chemically fluorinated graphene oxide for room temperature ammonia detection at ppb levels. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19116-19125 | 13 | 58 |
| 149 | Distortion in Two-Dimensional Shapes of Merging Nanobubbles: Evidence for Anisotropic Gas Flow Mechanism. <i>Langmuir</i> , 2016 , 32, 11303-11308 | 4 | 12 |
| 148 | Exfoliation and Raman Spectroscopic Fingerprint of Few-Layer NiPS ₃ Van der Waals Crystals. <i>Scientific Reports</i> , 2016 , 6, 20904 | 4.9 | 159 |
| 147 | Strain Relaxation of Graphene Layers by Cu Surface Roughening. <i>Nano Letters</i> , 2016 , 16, 5993-5998 | 11.5 | 48 |
| 146 | Strong hole-doping and robust resistance-decrease in proton-irradiated graphene. <i>Scientific Reports</i> , 2016 , 6, 21311 | 4.9 | 7 |
| 145 | Hydrogenated monolayer graphene with reversible and tunable wide band gap and its field-effect transistor. <i>Nature Communications</i> , 2016 , 7, 13261 | 17.4 | 101 |

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|-----|---|------|-----|
| 144 | Nanoscale Direct Mapping of Noise Source Activities on Graphene Domains. <i>ACS Nano</i> , 2016 , 10, 10135-10142 | 10.4 | 15 |
| 143 | Engineering structures and functions of mesenchymal stem cells by suspended large-area graphene nanopatterns. <i>2D Materials</i> , 2016 , 3, 035013 | 5.9 | 13 |
| 142 | Graphene-catalyzed photoreduction of dye molecules revealed by graphene enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3413-5 | 3.6 | 5 |
| 141 | Enhancement of electrochemical properties by polysulfide trapping in a graphene-coated sulfur cathode on patterned current collector. <i>Chemical Communications</i> , 2016 , 52, 3203-6 | 5.8 | 14 |
| 140 | Structural evolution of graphene in air at the electrical breakdown limit. <i>Carbon</i> , 2016 , 99, 466-471 | 10.4 | 11 |
| 139 | Non-destructive electron microscopy imaging and analysis of biological samples with graphene coating. <i>2D Materials</i> , 2016 , 3, 045004 | 5.9 | 23 |
| 138 | Graphene quantum dots: structural integrity and oxygen functional groups for high sulfur/sulfide utilization in lithium sulfur batteries. <i>NPG Asia Materials</i> , 2016 , 8, e272-e272 | 10.3 | 78 |
| 137 | Graphene quantum dots-decorated ZnS nanobelts with highly efficient photocatalytic performances. <i>RSC Advances</i> , 2016 , 6, 24115-24120 | 3.7 | 44 |
| 136 | Controlling the ripple density and heights: a new way to improve the electrical performance of CVD-grown graphene. <i>Nanoscale</i> , 2016 , 8, 9822-7 | 7.7 | 15 |
| 135 | An Ag-grid/graphene hybrid structure for large-scale, transparent, flexible heaters. <i>Nanoscale</i> , 2015 , 7, 6567-73 | 7.7 | 107 |
| 134 | A Facile Route for Patterned Growth of Metal-Insulator Carbon Lateral Junction through One-Pot Synthesis. <i>ACS Nano</i> , 2015 , 9, 8352-60 | 16.7 | 7 |
| 133 | Origin of White Electroluminescence in Graphene Quantum Dots Embedded Host/Guest Polymer Light Emitting Diodes. <i>Scientific Reports</i> , 2015 , 5, 11032 | 4.9 | 46 |
| 132 | An electrochemical approach to graphene oxide coated sulfur for long cycle life. <i>Nanoscale</i> , 2015 , 7, 13249-55 | 7.7 | 19 |
| 131 | Graphene oxide flakes as a cellular adhesive: prevention of reactive oxygen species mediated death of implanted cells for cardiac repair. <i>ACS Nano</i> , 2015 , 9, 4987-99 | 16.7 | 164 |
| 130 | Active control of all-fibre graphene devices with electrical gating. <i>Nature Communications</i> , 2015 , 6, 6851 | 17.4 | 127 |
| 129 | Materials for Flexible, Stretchable Electronics: Graphene and 2D Materials. <i>Annual Review of Materials Research</i> , 2015 , 45, 63-84 | 12.8 | 266 |
| 128 | Roll-to-roll continuous patterning and transfer of graphene via dispersive adhesion. <i>Nanoscale</i> , 2015 , 7, 7138-42 | 7.7 | 25 |
| 127 | Graphene Potentiates the Myocardial Repair Efficacy of Mesenchymal Stem Cells by Stimulating the Expression of Angiogenic Growth Factors and Gap Junction Protein. <i>Advanced Functional Materials</i> , 2015 , 25, 2590-2600 | 15.6 | 85 |

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|-----|--|------|------|
| 126 | Ultraclean patterned transfer of single-layer graphene by recyclable pressure sensitive adhesive films. <i>Nano Letters</i> , 2015 , 15, 3236-40 | 11.5 | 83 |
| 125 | Strain-Assisted Wafer-Scale Nanoperforation of Single-Layer Graphene by Arrayed Pt Nanoparticles. <i>Chemistry of Materials</i> , 2015 , 27, 7003-7010 | 9.6 | 11 |
| 124 | Monolayer Graphene-Directed Growth and Neuronal Differentiation of Mesenchymal Stem Cells. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 2024-33 | 4 | 43 |
| 123 | Self-Activated Transparent All-Graphene Gas Sensor with Endurance to Humidity and Mechanical Bending. <i>ACS Nano</i> , 2015 , 9, 10453-60 | 16.7 | 220 |
| 122 | Controlled growth of a graphene charge-floating gate for organic non-volatile memory transistors. <i>Organic Electronics</i> , 2015 , 27, 227-231 | 3.5 | 11 |
| 121 | Stable n-type doping of graphene via high-molecular-weight ethylene amines. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 29492-5 | 3.6 | 34 |
| 120 | Covalent conjugation of mechanically stiff graphene oxide flakes to three-dimensional collagen scaffolds for osteogenic differentiation of human mesenchymal stem cells. <i>Carbon</i> , 2015 , 83, 162-172 | 10.4 | 97 |
| 119 | Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810 | 7.7 | 2015 |
| 118 | Roll-to-roll synthesis and patterning of graphene and 2D materials 2015 , | | 1 |
| 117 | Surface-Engineered Graphene Quantum Dots Incorporated into Polymer Layers for High Performance Organic Photovoltaics. <i>Scientific Reports</i> , 2015 , 5, 14276 | 4.9 | 48 |
| 116 | High-performance ultraviolet photodetectors based on solution-grown ZnS nanobelts sandwiched between graphene layers. <i>Scientific Reports</i> , 2015 , 5, 12345 | 4.9 | 55 |
| 115 | Fluorinated CYTOP passivation effects on the electrical reliability of multilayer MoSi field-effect transistors. <i>Nanotechnology</i> , 2015 , 26, 455201 | 3.4 | 34 |
| 114 | Graphene-based nanomaterials for versatile imaging studies. <i>Chemical Society Reviews</i> , 2015 , 44, 4835-538.5 | 38.5 | 154 |
| 113 | In situ hybridization of carbon nanotubes with bacterial cellulose for three-dimensional hybrid bioscaffolds. <i>Biomaterials</i> , 2015 , 58, 93-102 | 15.6 | 62 |
| 112 | Reduced Water Vapor Transmission Rate of Graphene Gas Barrier Films for Flexible Organic Field-Effect Transistors. <i>ACS Nano</i> , 2015 , 9, 5818-24 | 16.7 | 79 |
| 111 | Engineering electrical properties of graphene: chemical approaches. <i>2D Materials</i> , 2015 , 2, 042001 | 5.9 | 37 |
| 110 | Growth dynamics and gas transport mechanism of nanobubbles in graphene liquid cells. <i>Nature Communications</i> , 2015 , 6, 6068 | 17.4 | 103 |
| 109 | N-doped graphene quantum sheets on silicon nanowire photocathodes for hydrogen production. <i>Energy and Environmental Science</i> , 2015 , 8, 1329-1338 | 35.4 | 113 |

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|-----|---|------|-----|
| 108 | Graphene-regulated cardiomyogenic differentiation process of mesenchymal stem cells by enhancing the expression of extracellular matrix proteins and cell signaling molecules. <i>Advanced Healthcare Materials</i> , 2014 , 3, 176-81 | 10.1 | 117 |
| 107 | Simultaneous Etching and Doping by Cu-Stabilizing Agent for High-Performance Graphene-Based Transparent Electrodes. <i>Chemistry of Materials</i> , 2014 , 26, 2332-2336 | 9.6 | 33 |
| 106 | One-step synthesis of N-doped graphene quantum sheets from monolayer graphene by nitrogen plasma. <i>Advanced Materials</i> , 2014 , 26, 3501-5 | 24 | 98 |
| 105 | Length-dependent thermal conductivity in suspended single-layer graphene. <i>Nature Communications</i> , 2014 , 5, 3689 | 17.4 | 603 |
| 104 | Highly uniform growth of monolayer graphene by chemical vapor deposition on Cu-Ag alloy catalysts. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 3087-94 | 3.6 | 16 |
| 103 | Fast synthesis of high-performance graphene films by hydrogen-free rapid thermal chemical vapor deposition. <i>ACS Nano</i> , 2014 , 8, 950-6 | 16.7 | 170 |
| 102 | Vapor-phase molecular doping of graphene for high-performance transparent electrodes. <i>ACS Nano</i> , 2014 , 8, 868-74 | 16.7 | 73 |
| 101 | Graphene enhances the cardiomyogenic differentiation of human embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 452, 174-80 | 3.4 | 83 |
| 100 | Selective catalytic burning of graphene by SiO _x layer depletion. <i>Nanoscale</i> , 2014 , 6, 1474-9 | 7.7 | 3 |
| 99 | Graphene-induced unusual microstructural evolution in Ag plated Cu foils. <i>Nanoscale</i> , 2014 , 6, 7209-14 | 7.7 | 2 |
| 98 | A highly conducting graphene film with dual-side molecular n-doping. <i>Nanoscale</i> , 2014 , 6, 9545-9 | 7.7 | 24 |
| 97 | Laser-induced solid-phase doped graphene. <i>ACS Nano</i> , 2014 , 8, 7671-7 | 16.7 | 41 |
| 96 | Graphene for displays that bend. <i>Nature Nanotechnology</i> , 2014 , 9, 737-8 | 28.7 | 124 |
| 95 | Carbon nanostructure-based saturable absorber mirror for a diode-pumped 500-MHz femtosecond Yb:KLu(WO ₄) ₂ laser. <i>Optics Express</i> , 2014 , 22, 15626-31 | 3.3 | 12 |
| 94 | Graphene oxide catalyzed cis-trans isomerization of azobenzene. <i>APL Materials</i> , 2014 , 2, 092501 | 5.7 | 5 |
| 93 | Efficient solution-processed small-molecule solar cells by insertion of graphene quantum dots. <i>Nanoscale</i> , 2014 , 6, 15175-80 | 7.7 | 23 |
| 92 | In-situ Raman spectroscopy of current-carrying graphene microbridge. <i>Journal of Raman Spectroscopy</i> , 2014 , 45, 168-172 | 2.3 | 11 |
| 91 | Infrared spectroscopy of large scale single layer graphene on self assembled organic monolayer. <i>Applied Physics Letters</i> , 2014 , 104, 041904 | 3.4 | 5 |

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|----|--|------|------|
| 90 | All-fiber dissipative soliton laser with 10.2 nJ pulse energy using an evanescent field interaction with graphene saturable absorber. <i>Laser Physics Letters</i> , 2014 , 11, 015101 | 1.5 | 45 |
| 89 | High-performance polymer light emitting diodes with interface-engineered graphene anodes. <i>Organic Electronics</i> , 2013 , 14, 2324-2330 | 3.5 | 28 |
| 88 | Transferable Graphene Oxide by Stamping Nanotechnology: Electron-Transport Layer for Efficient Bulk-Heterojunction Solar Cells. <i>Angewandte Chemie</i> , 2013 , 125, 2946-2952 | 3.6 | 6 |
| 87 | Balancing light absorptivity and carrier conductivity of graphene quantum dots for high-efficiency bulk heterojunction solar cells. <i>ACS Nano</i> , 2013 , 7, 7207-12 | 16.7 | 152 |
| 86 | Transferable graphene oxide by stamping nanotechnology: electron-transport layer for efficient bulk-heterojunction solar cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2874-80 | 16.4 | 105 |
| 85 | Efficient n-doping of graphene films by APPE (aminophenyl propargyl ether): a substituent effect. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18353-6 | 3.6 | 9 |
| 84 | N-doped monolayer graphene catalyst on silicon photocathode for hydrogen production. <i>Energy and Environmental Science</i> , 2013 , 6, 3658 | 35.4 | 119 |
| 83 | Self-organizing properties of triethylsilylethynyl-anthradithiophene on monolayer graphene electrodes in solution-processed transistors. <i>Nanoscale</i> , 2013 , 5, 11094-101 | 7.7 | 24 |
| 82 | Biomedical applications of graphene and graphene oxide. <i>Accounts of Chemical Research</i> , 2013 , 46, 2211-243 | 24.3 | 1179 |
| 81 | Thermal stability of metal Ohmic contacts in indium gallium zinc oxide transistors using a graphene barrier layer. <i>Applied Physics Letters</i> , 2013 , 102, 113112 | 3.4 | 27 |
| 80 | Prospects and challenges of graphene in biomedical applications. <i>Advanced Materials</i> , 2013 , 25, 2258-68 | 24 | 497 |
| 79 | Graphene-incorporated chitosan substrata for adhesion and differentiation of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 933-938 | 7.3 | 119 |
| 78 | Optical probing of the electronic interaction between graphene and hexagonal boron nitride. <i>ACS Nano</i> , 2013 , 7, 1533-41 | 16.7 | 48 |
| 77 | Tuning molecular self-assembly toward intriguing nanomaterial architectures. <i>Chemistry - A European Journal</i> , 2013 , 19, 9118-22 | 4.8 | 3 |
| 76 | A transparent and stretchable graphene-based actuator for tactile display. <i>Nanotechnology</i> , 2013 , 24, 145501 | 3.4 | 58 |
| 75 | Bacterial cellulose nanofibrillar patch as a wound healing platform of tympanic membrane perforation. <i>Advanced Healthcare Materials</i> , 2013 , 2, 1525-31 | 10.1 | 50 |
| 74 | Sub-100-fs Cr:YAG laser mode-locked by monolayer graphene saturable absorber. <i>Optics Letters</i> , 2013 , 38, 1745-7 | 3 | 50 |
| 73 | Graphene nanonet for biological sensing applications. <i>Nanotechnology</i> , 2013 , 24, 375302 | 3.4 | 7 |

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|----|--|------|------|
| 72 | Single-gate bandgap opening of bilayer graphene by dual molecular doping. <i>Advanced Materials</i> , 2012 , 24, 407-11 | 24 | 212 |
| 71 | Graphene mode-locked femtosecond Yb:KLuW laser. <i>Applied Physics Letters</i> , 2012 , 101, 161112 | 3.4 | 35 |
| 70 | Quasi-periodic nanoripples in graphene grown by chemical vapor deposition and its impact on charge transport. <i>ACS Nano</i> , 2012 , 6, 1158-64 | 16.7 | 111 |
| 69 | How to optically count graphene layers. <i>Optics Letters</i> , 2012 , 37, 3765-7 | 3 | 22 |
| 68 | Efficient Mode-Locking of Sub-70-fs Ti:Sapphire Laser by Graphene Saturable Absorber. <i>Applied Physics Express</i> , 2012 , 5, 032701 | 2.4 | 118 |
| 67 | Large-area graphene synthesis and its application to interface-engineered field effect transistors. <i>Solid State Communications</i> , 2012 , 152, 1350-1358 | 1.6 | 26 |
| 66 | Anomalous behaviors of visible luminescence from graphene quantum dots: interplay between size and shape. <i>ACS Nano</i> , 2012 , 6, 8203-8 | 16.7 | 469 |
| 65 | Extremely efficient flexible organic light-emitting diodes with modified graphene anode. <i>Nature Photonics</i> , 2012 , 6, 105-110 | 33.9 | 1141 |
| 64 | All graphene-based thin film transistors on flexible plastic substrates. <i>Nano Letters</i> , 2012 , 12, 3472-6 | 11.5 | 198 |
| 63 | Graphene transfer: key for applications. <i>Nanoscale</i> , 2012 , 4, 5527-37 | 7.7 | 352 |
| 62 | Graphene/nanowire hybrid structures for high-performance photoconductive devices. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8372 | | 40 |
| 61 | Solution processed polymer light-emitting diodes with single layer graphene anode 2012 , | | 2 |
| 60 | Effect of uni-axial strain on THz/far-infrared response of graphene. <i>Applied Physics Letters</i> , 2012 , 100, 041910 | 3.4 | 7 |
| 59 | Towards industrial applications of graphene electrodes. <i>Physica Scripta</i> , 2012 , T146, 014024 | 2.6 | 117 |
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