

Jun Seop Lee

List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 60 papers | 2,687 citations | 30 h-index | 51 g-index |
| 63 ext. papers | 2,980 ext. citations | 9.4 avg, IF | 5.54 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 60 | Flexible FET-type VEGF aptasensor based on nitrogen-doped graphene converted from conducting polymer. <i>ACS Nano</i> , 2012 , 6, 1486-93 | 16.7 | 206 |
| 59 | Multidimensional conducting polymer nanotubes for ultrasensitive chemical nerve agent sensing. <i>Nano Letters</i> , 2012 , 12, 2797-802 | 11.5 | 198 |
| 58 | Fabrication of ultrafine metal-oxide-decorated carbon nanofibers for DMMP sensor application. <i>ACS Nano</i> , 2011 , 5, 7992-8001 | 16.7 | 166 |
| 57 | 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 |
| 56 | 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 |
| 55 | Wireless Hydrogen Smart Sensor Based on Pt/Graphene-Immobilized Radio-Frequency Identification Tag. <i>ACS Nano</i> , 2015 , 9, 7783-90 | 16.7 | 83 |
| 54 | Fabrication of graphene sheets intercalated with manganese oxide/carbon nanofibers: toward high-capacity energy storage. <i>Small</i> , 2013 , 9, 248-54 | 11 | 83 |
| 53 | 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 |
| 52 | One-pot synthesis of silver nanoparticles decorated poly(3,4-ethylenedioxythiophene) nanotubes for chemical sensor application. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1521-1526 | | 80 |
| 51 | 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 |
| 50 | Fabrication of amorphous carbon-coated NiO nanofibers for electrochemical capacitor applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3364-3371 | 13 | 73 |
| 49 | Hydroxylated N-doped carbon nanotube-sulfur composites as cathodes for high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2017 , 343, 54-59 | 8.9 | 67 |
| 48 | 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 |
| 47 | Flower-like Palladium Nanoclusters Decorated Graphene Electrodes for Ultrasensitive and Flexible Hydrogen Gas Sensing. <i>Scientific Reports</i> , 2015 , 5, 12294 | 4.9 | 65 |
| 46 | Sulfur-Immobilized, Activated Porous Carbon Nanotube Composite Based Cathodes for Lithium-Sulfur Batteries. <i>Small</i> , 2017 , 13, 1602984 | 11 | 64 |
| 45 | WO ₃ nanonodule-decorated hybrid carbon nanofibers for NO ₂ gas sensor application. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9099 | 13 | 61 |
| 44 | Hetero-structured semiconductor nanomaterials for photocatalytic applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 363-371 | 6.3 | 57 |

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| 43 | 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 |
| 42 | 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 |
| 41 | Facile synthesis of SnO ₂ nanofibers decorated with N-doped ZnO nanonodules for visible light photocatalysts using single-nozzle co-electrospinning. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14565 | | 47 |
| 40 | Ultrasensitive and selective recognition of peptide hormone using close-packed arrays of hPTHR-conjugated polymer nanoparticles. <i>ACS Nano</i> , 2012 , 6, 5549-58 | 16.7 | 47 |
| 39 | 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 |
| 38 | Urchin-like polypyrrole nanoparticles for highly sensitive and selective chemiresistive sensor application. <i>Nanoscale</i> , 2014 , 6, 4188-94 | 7.7 | 46 |
| 37 | 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 |
| 36 | Multidimensional polypyrrole/iron oxyhydroxide hybrid nanoparticles for chemical nerve gas agent sensing application. <i>ACS Nano</i> , 2013 , 7, 10139-47 | 16.7 | 46 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | Fe ₃ O ₄ /carbon hybrid nanoparticle electrodes for high-capacity electrochemical capacitors. <i>ChemSusChem</i> , 2014 , 7, 1676-83 | 8.3 | 37 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | Three-dimensional scaffolds of carbonized polyacrylonitrile for bone tissue regeneration. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9213-7 | 16.4 | 28 |
| 27 | 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 |
| 26 | 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 |

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| 25 | 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 |
| 24 | Facile Synthesis of CoO-Incorporated Multichannel Carbon Nanofibers for Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20613-20622 | 9.5 | 24 |
| 23 | Highly porous structured polyaniline nanocomposites for scalable and flexible high-performance supercapacitors. <i>Nanoscale</i> , 2019 , 11, 6462-6470 | 7.7 | 23 |
| 22 | 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 |
| 21 | Porous palladium coated conducting polymer nanoparticles for ultrasensitive hydrogen sensors. <i>Nanoscale</i> , 2015 , 7, 20665-73 | 7.7 | 19 |
| 20 | 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 |
| 19 | Multidimensional hybrid conductive nanoplate-based aptasensor for platelet-derived growth factor detection. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4447-4454 | 7.3 | 16 |
| 18 | Recent Developments of the Solution-Processable and Highly Conductive Polyaniline Composites for Optical and Electrochemical Applications. <i>Polymers</i> , 2019 , 11, | 4.5 | 15 |
| 17 | Platinum nanoparticles immobilized on polypyrrole nanofibers for non-enzyme oxalic acid sensor. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1272-1278 | 7.3 | 13 |
| 16 | Comparative Studies on Two-Electrode Symmetric Supercapacitors Based on Polypyrrole:Poly(4-styrenesulfonate) with Different Molecular Weights of Poly(4-styrenesulfonate). <i>Polymers</i> , 2019 , 11, | 4.5 | 12 |
| 15 | Three-Dimensional Scaffolds of Carbonized Polyacrylonitrile for Bone Tissue Regeneration. <i>Angewandte Chemie</i> , 2014 , 126, 9367-9371 | 3.6 | 12 |
| 14 | 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 |
| 13 | 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 |
| 12 | Aptamer-Functionalized Three-Dimensional Carbon Nanowebs for Ultrasensitive and Free-Standing PDGF Biosensor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20882-20890 | 9.5 | 11 |
| 11 | 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 |
| 10 | Platinum-decorated reduced graphene oxide/polyaniline:poly(4-styrenesulfonate) hybrid paste for flexible dipole tag-antenna applications. <i>Nanoscale</i> , 2015 , 7, 3668-74 | 7.7 | 7 |
| 9 | Multiscale pore contained carbon nanofiber-based field-effect transistor biosensors for nesfatin-1 detection. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 6076-6083 | 7.3 | 7 |
| 8 | 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 |

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| 7 | Recent Development of Flexible Tactile Sensors and Their Applications.. <i>Sensors</i> , 2021 , 22, | 3.8 | 6 |
| 6 | 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 |
| 5 | Recent Development of Morphology Controlled Conducting Polymer Nanomaterial-Based Biosensor. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5889 | 2.6 | 4 |
| 4 | 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 |
| 3 | Freestanding and Flexible EMnO@Carbon Sheet for Application as a Highly Sensitive Dimethyl Methylphosphonate Sensor. <i>ACS Omega</i> , 2021 , 6, 4988-4994 | 3.9 | 3 |
| 2 | Ruthenium Decorated Polypyrrole Nanoparticles for Highly Sensitive Hydrogen Gas Sensors Using Component Ratio and Protonation Control. <i>Polymers</i> , 2020 , 12, | 4.5 | 2 |
| 1 | Ruthenium Nanoparticle-Immobilized Porous Carbon Nanofibers for Nonenzymatic Dopamine Sensing. <i>ACS Applied Nano Materials</i> , 2021 , 4, 13683-13691 | 5.6 | 1 |