Jun Seop Lee

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.

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	Multiscale pore contained carbon nanofiber-based field-effect transistor biosensors for nesfatin-1 detection. *Journal of Materials Chemistry B*, **2021**, 9, 6076-6083	7.3	7
59	Freestanding and Flexible MnO@Carbon Sheet for Application as a Highly Sensitive Dimethyl Methylphosphonate Sensor. *ACS Omega*, **2021**, 6, 4988-4994	3.9	3
58	Recent Development of Flexible Tactile Sensors and Their Applications.. *Sensors*, **2021**, 22,	3.8	6
57	Ruthenium Nanoparticle-Immobilized Porous Carbon Nanofibers for Nonenzymatic Dopamine Sensing. *ACS Applied Nano Materials*, **2021**, 4, 13683-13691	5.6	1
56	Ruthenium Decorated Polypyrrole Nanoparticles for Highly Sensitive Hydrogen Gas Sensors Using Component Ratio and Protonation Control. *Polymers*, **2020**, 12,	4.5	2
55	Comparative Study on the Formation and Oxidation-Level Control of Three-Dimensional Conductive Nanofilms for Gas Sensor Applications. *ACS Omega*, **2020**, 5, 2992-2999	3.9	3
54	Facile synthesis of palladium-decorated three-dimensional conducting polymer nanofilm for highly sensitive H2 gas sensor. *Journal of Materials Science*, **2020**, 55, 5156-5165	4.3	9
53	Aptamer-Functionalized Three-Dimensional Carbon Nanowebs for Ultrasensitive and Free-Standing PDGF Biosensor. *ACS Applied Materials & Interfaces*, **2020**, 12, 20882-20890	9.5	11
52	Comparative Study on the Effect of Protonation Control for Resistive Gas Sensor Based on Close-Packed Polypyrrole Nanoparticles. *Applied Sciences (Switzerland)*, **2020**, 10, 1850	2.6	4
51	Recent Development of Morphology Controlled Conducting Polymer Nanomaterial-Based Biosensor. *Applied Sciences (Switzerland)*, **2020**, 10, 5889	2.6	4
50	Facile Synthesis of CoO-Incorporated Multichannel Carbon Nanofibers for Electrochemical Applications. *ACS Applied Materials & Interfaces*, **2020**, 12, 20613-20622	9.5	24
49	Comparative Studies on Two-Electrode Symmetric Supercapacitors Based on Polypyrrole:Poly(4-styrenesulfonate) with Different Molecular Weights of Poly(4-styrenesulfonate). *Polymers*, **2019**, 11,	4.5	12
48	A highly sensitive wireless nitrogen dioxide gas sensor based on an organic conductive nanocomposite paste. *Journal of Materials Chemistry A*, **2019**, 7, 8451-8459	13	30
47	Highly porous structured polyaniline nanocomposites for scalable and flexible high-performance supercapacitors. *Nanoscale*, **2019**, 11, 6462-6470	7.7	23
46	Recent Developments of the Solution-Processable and Highly Conductive Polyaniline Composites for Optical and Electrochemical Applications. *Polymers*, **2019**, 11,	4.5	15
45	Highly selective FET-type glucose sensor based on shape-controlled palladium nanoflower-decorated graphene. *Sensors and Actuators B: Chemical*, **2018**, 264, 216-223	8.5	25
44	Platinum nanoparticles immobilized on polypyrrole nanofibers for non-enzyme oxalic acid sensor. *Journal of Materials Chemistry B*, **2018**, 6, 1272-1278	7.3	13

43	Multidimensional Conductive Nanofilm-Based Flexible Aptasensor for Ultrasensitive and Selective HBsAg Detection. *ACS Applied Materials & Interfaces*, **2018**, 10, 28412-28419	9.5	25
42	Facile synthesis of size-controlled FeO nanoparticle-decorated carbon nanotubes for highly sensitive HS detection.. *RSC Advances*, **2018**, 8, 31874-31880	3.7	7
41	Sulfur-Immobilized, Activated Porous Carbon Nanotube Composite Based Cathodes for Lithium-Sulfur Batteries. *Small*, **2017**, 13, 1602984	11	64
40	Hydroxylated N-doped carbon nanotube-sulfur composites as cathodes for high-performance lithium-sulfur batteries. *Journal of Power Sources*, **2017**, 343, 54-59	8.9	67
39	Electrospun three-layered polymer nanofiber-based porous carbon nanotubes for high-capacity energy storage. *RSC Advances*, **2017**, 7, 201-207	3.7	11
38	Ultrasensitive and Selective Organic FET-type Nonenzymatic Dopamine Sensor Based on Platinum Nanoparticles-Decorated Reduced Graphene Oxide. *ACS Applied Materials & Interfaces*, **2017**, 9, 39526-39533	9.5	42
37	Fabrication of a one-dimensional tube-in-tube polypyrrole/tin oxide structure for highly sensitive DMMP sensor applications. *Journal of Materials Chemistry A*, **2017**, 5, 17335-17340	13	27
36	Sulfur-Embedded Activated Multichannel Carbon Nanofiber Composites for Long-Life, High-Rate LithiumSulfur Batteries. *Advanced Energy Materials*, **2017**, 7, 1601943	21.8	165
35	Wireless, Room Temperature Volatile Organic Compound Sensor Based on Polypyrrole Nanoparticle Immobilized Ultrahigh Frequency Radio Frequency Identification Tag. *ACS Applied Materials & Interfaces*, **2016**, 8, 33139-33147	9.5	48
34	Highly ordered, polypyrrole-coated Co(OH)2 architectures for high-performance asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 6603-6609	13	46
33	Multidimensional hybrid conductive nanoplate-based aptasensor for platelet-derived growth factor detection. *Journal of Materials Chemistry B*, **2016**, 4, 4447-4454	7.3	16
32	Ultrasensitive Bisphenol A Field-Effect Transistor Sensor Using an Aptamer-Modified Multichannel Carbon Nanofiber Transducer. *ACS Applied Materials & Interfaces*, **2016**, 8, 6602-10	9.5	53
31	Highly Sensitive and Selective Field-Effect-Transistor NonEnzyme Dopamine Sensors Based on Pt/Conducting Polymer Hybrid Nanoparticles. *Small*, **2015**, 11, 2399-406	11	37
30	Wireless Hydrogen Smart Sensor Based on Pt/Graphene-Immobilized Radio-Frequency Identification Tag. *ACS Nano*, **2015**, 9, 7783-90	16.7	83
29	Platinum-decorated carbon nanoparticle/polyaniline hybrid paste for flexible wideband dipole tag-antenna application. *Journal of Materials Chemistry A*, **2015**, 3, 7029-7035	13	11
28	Poly(vinylidene fluoride)/NH2-Treated Graphene Nanodot/Reduced Graphene Oxide Nanocomposites with Enhanced Dielectric Performance for Ultrahigh Energy Density Capacitor. *ACS Applied Materials & Interfaces*, **2015**, 7, 9668-81	9.5	65
27	Polypropylene/Polyaniline Nanofiber/Reduced Graphene Oxide Nanocomposite with Enhanced Electrical, Dielectric, and Ferroelectric Properties for a High Energy Density Capacitor. *ACS Applied Materials & Interfaces*, **2015**, 7, 22301-14	9.5	75
26	Multidimensional MnO2 nanohair-decorated hybrid multichannel carbon nanofiber as an electrode material for high-performance supercapacitors. *Nanoscale*, **2015**, 7, 16026-33	7.7	44

25	Polypyrrole-coated manganese dioxide with multiscale architectures for ultrahigh capacity energy storage. *Energy and Environmental Science*, **2015**, 8, 3030-3039	35.4	102
24	Flower-like Palladium Nanoclusters Decorated Graphene Electrodes for Ultrasensitive and Flexible Hydrogen Gas Sensing. *Scientific Reports*, **2015**, 5, 12294	4.9	65
23	Porous palladium coated conducting polymer nanoparticles for ultrasensitive hydrogen sensors. *Nanoscale*, **2015**, 7, 20665-73	7.7	19
22	Platinum-decorated reduced graphene oxide/polyaniline:poly(4-styrenesulfonate) hybrid paste for flexible dipole tag-antenna applications. *Nanoscale*, **2015**, 7, 3668-74	7.7	7
21	Detection of hazardous gas using multidemensional porous iron oxide nanorods-decorated carbon nanoparticles. *ACS Applied Materials & Interfaces*, **2015**, 7, 1746-51	9.5	16
20	Urchin-like polypyrrole nanoparticles for highly sensitive and selective chemiresistive sensor application. *Nanoscale*, **2014**, 6, 4188-94	7.7	46
19	Hetero-structured semiconductor nanomaterials for photocatalytic applications. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 363-371	6.3	57
18	Fabrication of water-dispersible and highly conductive PSS-doped PANI/graphene nanocomposites using a high-molecular weight PSS dopant and their application in H2S detection. *Nanoscale*, **2014**, 6, 15181-95	7.7	81
17	A metal-oxide nanofiber-decorated three-dimensional graphene hybrid nanostructured flexible electrode for high-capacity electrochemical capacitors. *Journal of Materials Chemistry A*, **2014**, 2, 11922	13	30
16	Fabrication of amorphous carbon-coated NiO nanofibers for electrochemical capacitor applications. *Journal of Materials Chemistry A*, **2014**, 2, 3364-3371	13	73
15	High-sensitivity hydrogen gas sensors based on Pd-decorated nanoporous poly(aniline-co-aniline-2-sulfonic acid):poly(4-styrenesulfonic acid). *Journal of Materials Chemistry A*, **2014**, 2, 1955-1966	13	22
14	Aptamer-Functionalized Multidimensional Conducting-Polymer Nanoparticles for an Ultrasensitive and Selective Field-Effect-Transistor Endocrine-Disruptor Sensors. *Advanced Functional Materials*, **2014**, 24, 6145-6153	15.6	30
13	Aptamer-functionalized hybrid carbon nanofiber FET-type electrode for a highly sensitive and selective platelet-derived growth factor biosensor. *ACS Applied Materials & Interfaces*, **2014**, 6, 13859-65	9.5	46
12	Three-dimensional scaffolds of carbonized polyacrylonitrile for bone tissue regeneration. *Angewandte Chemie - International Edition*, **2014**, 53, 9213-7	16.4	28
11	Fe3O4/carbon hybrid nanoparticle electrodes for high-capacity electrochemical capacitors. *ChemSusChem*, **2014**, 7, 1676-83	8.3	37
10	Three-Dimensional Scaffolds of Carbonized Polyacrylonitrile for Bone Tissue Regeneration. *Angewandte Chemie*, **2014**, 126, 9367-9371	3.6	12
9	Multidimensional polypyrrole/iron oxyhydroxide hybrid nanoparticles for chemical nerve gas agent sensing application. *ACS Nano*, **2013**, 7, 10139-47	16.7	46
8	WO3 nanonodule-decorated hybrid carbon nanofibers for NO2 gas sensor application. *Journal of Materials Chemistry A*, **2013**, 1, 9099	13	61

7	Fabrication of graphene sheets intercalated with manganese oxide/carbon nanofibers: toward high-capacity energy storage. *Small*, **2013**, 9, 248-54	11	83
6	Flexible FET-type VEGF aptasensor based on nitrogen-doped graphene converted from conducting polymer. *ACS Nano*, **2012**, 6, 1486-93	16.7	206
5	Facile synthesis of SnO2 nanofibers decorated with N-doped ZnO nanonodules for visible light photocatalysts using single-nozzle co-electrospinning. *Journal of Materials Chemistry*, **2012**, 22, 14565		47
4	One-pot synthesis of silver nanoparticles decorated poly(3,4-ethylenedioxythiophene) nanotubes for chemical sensor application. *Journal of Materials Chemistry*, **2012**, 22, 1521-1526		80
3	Ultrasensitive and selective recognition of peptide hormone using close-packed arrays of hPTHR-conjugated polymer nanoparticles. *ACS Nano*, **2012**, 6, 5549-58	16.7	47
2	Multidimensional conducting polymer nanotubes for ultrasensitive chemical nerve agent sensing. *Nano Letters*, **2012**, 12, 2797-802	11.5	198
1	Fabrication of ultrafine metal-oxide-decorated carbon nanofibers for DMMP sensor application. *ACS Nano*, **2011**, 5, 7992-8001	16.7	166