Woosung Kwon

List of Publications by Year
in descending order

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51 papers	4,034 citations	159585 30 h-index	182427 51 g-index
52 all docs	52 docs citations	52 times ranked	6852 citing authors

#	Article	IF	Citations
1	Unraveling the origin of near-infrared emission in carbon dots by ultrafast spectroscopy. Carbon, 2022, 188, 229-237.	10.3	12
2	Radiative and Non-Radiative Decay Pathways in Carbon Nanodots toward Bioimaging and Photodynamic Therapy. Nanomaterials, 2022, 12, 70.	4.1	6
3	Oxygen-less Carbon Nanodots with an Absolute Quantum Yield of 80% for Display Applications. ACS Applied Nano Materials, 2021, 4, 2462-2469.	5.0	9
4	Energy-Filtered Acceleration of Charge-Carrier Transport in Organic Thermoelectric Nanocomposites. Chemistry of Materials, 2021, 33, 4853-4862.	6.7	28
5	Emerging Phospholipid Nanobiomaterials for Biomedical Applications to Lab-on-a-Chip, Drug Delivery, and Cellular Engineering. ACS Applied Bio Materials, 2021, 4, 8110-8128.	4.6	17
6	Multifunctional materials for implantable and wearable photonic healthcare devices. Nature Reviews Materials, 2020, 5, 149-165.	48.7	403
7	Biocompatible nitrogen-doped carbon dots: synthesis, characterization, and application. Journal of Materials Chemistry B, 2020, 8, 8935-8951.	5.8	75
8	Biocompatible Organosilica Nanoparticles with Self-Encapsulated Phenyl Motifs for Effective UV Protection. ACS Applied Materials & Interfaces, 2020, 12, 9062-9069.	8.0	20
9	Photoluminescent and biodegradable porous silicon nanoparticles for biomedical imaging. Journal of Materials Chemistry B, 2019, 7, 6271-6292.	5.8	45
10	Formation of TiO‹sub›2‹/sub›@Carbon Core/Shell Nanocomposites from a Single Molecular Layer of Aromatic Compounds for Photocatalytic Hydrogen Peroxide Generation. ACS Applied Materials & Interfaces, 2019, 11, 41196-41203.	8.0	24
11	Hyaluronic Acid Derivatives for Translational Medicines. Biomacromolecules, 2019, 20, 2889-2903.	5.4	66
12	Controlled growth of fluorescent silica nanoparticles using two-phase orthogonal solvents for bioimaging. Journal of Luminescence, 2019, 214, 116529.	3.1	2
13	Multifunctional hyaluronate â€“ nanoparticle hybrid systems for diagnostic, therapeutic and theranostic applications. Journal of Controlled Release, 2019, 303, 55-66.	9.9	24
14	Synthesis of Ag/Mn Co-Doped CdS/ZnS (Core/Shell) Nanocrystals with Controlled Dopant Concentration and Spatial Distribution and the Dynamics of Excitons and Energy Transfer between Co-Dopants. Nano Letters, 2019, 19, 308-317.	9.1	16
15	A multi-dye containing MOF for the ratiometric detection and simultaneous removal of Cr2O72â^' in the presence of interfering ions. Sensors and Actuators B: Chemical, 2019, 283, 426-433.	7.8	62
16	Highly conductive, transparent and metal-free electrodes with a PEDOT:PSS/SWNT bilayer for high-performance organic thin film transistors. Organic Electronics, 2019, 67, 26-33.	2.6	20
17	In Vivo Photoacoustic Imaging of Livers Using Biodegradable Hyaluronic Acidâ€Conjugated Silica Nanoparticles. Advanced Functional Materials, 2018, 28, 1800941.	14.9	66
18	Multifunctional Photonic Nanomaterials for Diagnostic, Therapeutic, and Theranostic Applications. Advanced Materials, 2018, 30, 1701460.	21.0	137

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19	Defect-Induced Fluorescence of Silica Nanoparticles for Bioimaging Applications. ACS Applied Materials & Interfaces, 2018, 10, 44247-44256.	8.0	13
20	Highly Luminescent Organic Nanorods from Air Oxidation of <i>paraâ€<</i>Substituted Anilines for Freestanding Deepâ€Red Color Filters. Advanced Optical Materials, 2018, 6, 1800577.	7.3	2
21	Bioimaging: In Vivo Photoacoustic Imaging of Livers Using Biodegradable Hyaluronic Acid-Conjugated Silica Nanoparticles (Adv. Funct. Mater. 22/2018). Advanced Functional Materials, 2018, 28, 1870153.	14.9	1
22	N-doped carbon nanodots for non-invasive photoacoustic imaging and photothermal therapy. Proceedings of SPIE, 2017, , .	0.8	2
23	Highly Efficient Light-Emitting Diodes of Colloidal Metalâ€“Halide Perovskite Nanocrystals beyond Quantum Size. ACS Nano, 2017, 11, 6586-6593.	14.6	310
24	Tailoring Nanocrystalline Metalâ€“Organic Frameworks as Fluorescent Dye Carriers for Bioimaging. Inorganic Chemistry, 2017, 56, 12859-12865.	4.0	37
25	Effects of oxygen plasma generated in magnetron sputtering of ruthenium oxide on pentacene thin film transistors. Korean Journal of Chemical Engineering, 2017, 34, 2502-2506.	2.7	3
26	Carbon Nanodots: Dualâ€Colorâ€Emitting Carbon Nanodots for Multicolor Bioimaging and Optogenetic Control of Ion Channels (Adv. Sci. 11/2017). Advanced Science, 2017, 4, .	11.2	0
27	Dualâ€Colorâ€Emitting Carbon Nanodots for Multicolor Bioimaging and Optogenetic Control of Ion Channels. Advanced Science, 2017, 4, 1700325.	11.2	31
28	High efficiency perovskite light-emitting diodes of ligand-engineered colloidal formamidinium lead bromide nanoparticles. Nano Energy, 2017, 38, 51-58.	16.0	195
29	Flexible and highly efficient perovskite solar cells with a large active area incorporating cobalt-doped poly(3-hexylthiophene) for enhanced open-circuit voltage. Journal of Materials Chemistry A, 2017, 5, 12158-12167.	10.3	54
30	Biodegradable Nitrogen-Doped Carbon Nanodots for Non-Invasive Photoacoustic Imaging and Photothermal Therapy. Theranostics, 2016, 6, 2196-2208.	10.0	138
31	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. Scientific Reports, 2016, 6, 24205.	3.3	72
32	N,Sâ€Induced Electronic States of Carbon Nanodots Toward White Electroluminescence. Advanced Optical Materials, 2016, 4, 276-284.	7.3	60
33	Improving the functionality of carbon nanodots: doping and surface functionalization. Journal of Materials Chemistry A, 2016, 4, 11582-11603.	10.3	379
34	Control of Photoluminescence of Carbon Nanodots via Surface Functionalization using Para-substituted Anilines. Scientific Reports, 2015, 5, 12604.	3.3	146
35	Electrochemical properties of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) and carbon black composite as an electron injector into the electrolyte containing iodide redox couple. Electrochimica Acta, 2015, 161, 205-211.	5.2	3
36	Photoelectrochemical Hydrogen Generation Using C-dot/ZnO Hierarchical Nanostructure as an Efficient Photoanode. Journal of the Electrochemical Society, 2015, 162, H366-H370.	2.9	13

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37	Sizeâ€Controlled Softâ€Template Synthesis of Carbon Nanodots toward Versatile Photoactive Materials. Small, 2014, 10, 506-513.	10.0	246
38	Soft-template synthesis of nitrogen-doped carbon nanodots: tunable visible-light photoluminescence and phosphor-based light-emitting diodes. Journal of Materials Chemistry C, 2014, 2, 4221.	5.5	51
39	Electroluminescence from Graphene Quantum Dots Prepared by Amidative Cutting of Tattered Graphite. Nano Letters, 2014, 14, 1306-1311.	9.1	260
40	Electrocatalytic carbonaceous materials for counter electrodes in dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 3202-3215.	10.3	59
41	Sulfur-incorporated carbon quantum dots with a strong long-wavelength absorption band. Journal of Materials Chemistry C, 2013, 1, 2002.	5.5	65
42	Freestanding Luminescent Films of Nitrogen-Rich Carbon Nanodots toward Large-Scale Phosphor-Based White-Light-Emitting Devices. Chemistry of Materials, 2013, 25, 1893-1899.	6.7	227
43	Carbon Quantum Dot-Based Field-Effect Transistors and Their Ligand Length-Dependent Carrier Mobility. ACS Applied Materials & Interfaces, 2013, 5, 822-827.	8.0	49
44	A light scattering polymer gel electrolyte for high performance dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 6027.	6.7	14
45	Formation of highly luminescent nearly monodisperse carbon quantum dots via emulsion-templated carbonization of carbohydrates. RSC Advances, 2012, 2, 11223.	3.6	54
46	Facile synthesis of graphitic carbon quantum dots with size tunability and uniformity using reverse micelles. Chemical Communications, 2012, 48, 5256.	4.1	216
47	A new equivalent circuit model for porous carbon electrodes in charge transfer reaction of iodide/triiodide redox couples. Electrochimica Acta, 2012, 68, 110-113.	5.2	63
48	Multiwall Carbon Nanotube and Poly(3,4-ethylenedioxythiophene): Polystyrene Sulfonate (PEDOT:PSS) Composite Films for Transistor and Inverter Devices. ACS Applied Materials & Interfaces, 2011, 3, 43-49.	8.0	105
49	High performance quasi-solid-state dye-sensitized solar cells based on poly(lactic acid-co-glycolic) Tj ETQq1 1 0.784314 rgBT /Overloc	7.8	16
50	Carbon-nanofiber counter electrodes for quasi-solid state dye-sensitized solar cells. Journal of Power Sources, 2011, 196, 10798-10805.	7.8	69
51	Key technological elements in dye-sensitized solar cells (DSC). Korean Journal of Chemical Engineering, 2011, 28, 1481-1494.	2.7	37