

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	Multifunctional materials for implantable and wearable photonic healthcare devices. <i>Nature Reviews Materials</i> , 2020, 5, 149-165.	48.7	403
2	Improving the functionality of carbon nanodots: doping and surface functionalization. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11582-11603.	10.3	379
3	Highly Efficient Light-Emitting Diodes of Colloidal Metal-Halide Perovskite Nanocrystals beyond Quantum Size. <i>ACS Nano</i> , 2017, 11, 6586-6593.	14.6	310
4	Electroluminescence from Graphene Quantum Dots Prepared by Amidative Cutting of Tattered Graphite. <i>Nano Letters</i> , 2014, 14, 1306-1311.	9.1	260
5	Size-Controlled Soft-Template Synthesis of Carbon Nanodots toward Versatile Photoactive Materials. <i>Small</i> , 2014, 10, 506-513.	10.0	246
6	Freestanding Luminescent Films of Nitrogen-Rich Carbon Nanodots toward Large-Scale Phosphor-Based White-Light-Emitting Devices. <i>Chemistry of Materials</i> , 2013, 25, 1893-1899.	6.7	227
7	Facile synthesis of graphitic carbon quantum dots with size tunability and uniformity using reverse micelles. <i>Chemical Communications</i> , 2012, 48, 5256.	4.1	216
8	High efficiency perovskite light-emitting diodes of ligand-engineered colloidal formamidinium lead bromide nanoparticles. <i>Nano Energy</i> , 2017, 38, 51-58.	16.0	195
9	Control of Photoluminescence of Carbon Nanodots via Surface Functionalization using Para-substituted Anilines. <i>Scientific Reports</i> , 2015, 5, 12604.	3.3	146
10	Biodegradable Nitrogen-Doped Carbon Nanodots for Non-Invasive Photoacoustic Imaging and Photothermal Therapy. <i>Theranostics</i> , 2016, 6, 2196-2208.	10.0	138
11	Multifunctional Photonic Nanomaterials for Diagnostic, Therapeutic, and Theranostic Applications. <i>Advanced Materials</i> , 2018, 30, 1701460.	21.0	137
12	Multiwall Carbon Nanotube and Poly(3,4-ethylenedioxythiophene): Polystyrene Sulfonate (PEDOT:PSS) Composite Films for Transistor and Inverter Devices. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 43-49.	8.0	105
13	Biocompatible nitrogen-doped carbon dots: synthesis, characterization, and application. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8935-8951.	5.8	75
14	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. <i>Scientific Reports</i> , 2016, 6, 24205.	3.3	72
15	Carbon-nanofiber counter electrodes for quasi-solid state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011, 196, 10798-10805.	7.8	69
16	In Vivo Photoacoustic Imaging of Livers Using Biodegradable Hyaluronic Acid-Conjugated Silica Nanoparticles. <i>Advanced Functional Materials</i> , 2018, 28, 1800941.	14.9	66
17	Hyaluronic Acid Derivatives for Translational Medicines. <i>Biomacromolecules</i> , 2019, 20, 2889-2903.	5.4	66
18	Sulfur-incorporated carbon quantum dots with a strong long-wavelength absorption band. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2002.	5.5	65

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19	A new equivalent circuit model for porous carbon electrodes in charge transfer reaction of iodide/triiodide redox couples. <i>Electrochimica Acta</i> , 2012, 68, 110-113.	5.2	63
20	A multi-dye containing MOF for the ratiometric detection and simultaneous removal of Cr ₂ O ₇ ²⁻ in the presence of interfering ions. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 426-433.	7.8	62
21	N, S-Induced Electronic States of Carbon Nanodots Toward White Electroluminescence. <i>Advanced Optical Materials</i> , 2016, 4, 276-284.	7.3	60
22	Electrocatalytic carbonaceous materials for counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3202-3215.	10.3	59
23	Formation of highly luminescent nearly monodisperse carbon quantum dots via emulsion-templated carbonization of carbohydrates. <i>RSC Advances</i> , 2012, 2, 11223.	3.6	54
24	Flexible and highly efficient perovskite solar cells with a large active area incorporating cobalt-doped poly(3-hexylthiophene) for enhanced open-circuit voltage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12158-12167.	10.3	54
25	Soft-template synthesis of nitrogen-doped carbon nanodots: tunable visible-light photoluminescence and phosphor-based light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4221.	5.5	51
26	Carbon Quantum Dot-Based Field-Effect Transistors and Their Ligand Length-Dependent Carrier Mobility. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 822-827.	8.0	49
27	Photoluminescent and biodegradable porous silicon nanoparticles for biomedical imaging. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6271-6292.	5.8	45
28	Key technological elements in dye-sensitized solar cells (DSC). <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1481-1494.	2.7	37
29	Tailoring Nanocrystalline Metal-Organic Frameworks as Fluorescent Dye Carriers for Bioimaging. <i>Inorganic Chemistry</i> , 2017, 56, 12859-12865.	4.0	37
30	Dual-Color-Emitting Carbon Nanodots for Multicolor Bioimaging and Optogenetic Control of Ion Channels. <i>Advanced Science</i> , 2017, 4, 1700325.	11.2	31
31	Energy-Filtered Acceleration of Charge-Carrier Transport in Organic Thermoelectric Nanocomposites. <i>Chemistry of Materials</i> , 2021, 33, 4853-4862.	6.7	28
32	Formation of TiO ₂ @Carbon Core/Shell Nanocomposites from a Single Molecular Layer of Aromatic Compounds for Photocatalytic Hydrogen Peroxide Generation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41196-41203.	8.0	24
33	Multifunctional hyaluronate nanoparticle hybrid systems for diagnostic, therapeutic and theranostic applications. <i>Journal of Controlled Release</i> , 2019, 303, 55-66.	9.9	24
34	Highly conductive, transparent and metal-free electrodes with a PEDOT:PSS/SWNT bilayer for high-performance organic thin film transistors. <i>Organic Electronics</i> , 2019, 67, 26-33.	2.6	20
35	Biocompatible Organosilica Nanoparticles with Self-Encapsulated Phenyl Motifs for Effective UV Protection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9062-9069.	8.0	20
36	Emerging Phospholipid Nanobiomaterials for Biomedical Applications to Lab-on-a-Chip, Drug Delivery, and Cellular Engineering. <i>ACS Applied Bio Materials</i> , 2021, 4, 8110-8128.	4.6	17

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37	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
38	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
39	A light scattering polymer gel electrolyte for high performance dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 6027.	6.7	14
40	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
41	Defect-Induced Fluorescence of Silica Nanoparticles for Bioimaging Applications. ACS Applied Materials & Interfaces, 2018, 10, 44247-44256.	8.0	13
42	Unraveling the origin of near-infrared emission in carbon dots by ultrafast spectroscopy. Carbon, 2022, 188, 229-237.	10.3	12
43	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
44	Radiative and Non-Radiative Decay Pathways in Carbon Nanodots toward Bioimaging and Photodynamic Therapy. Nanomaterials, 2022, 12, 70.	4.1	6
45	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
46	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
47	N-doped carbon nanodots for non-invasive photoacoustic imaging and photothermal therapy. Proceedings of SPIE, 2017, , .	0.8	2
48	Highly Luminescent Organic Nanorods from Air Oxidation of <i>p</i> -Substituted Anilines for Freestanding Deep-Red Color Filters. Advanced Optical Materials, 2018, 6, 1800577.	7.3	2
49	Controlled growth of fluorescent silica nanoparticles using two-phase orthogonal solvents for bioimaging. Journal of Luminescence, 2019, 214, 116529.	3.1	2
50	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
51	Carbon Nanodots: Dual-Color-Emitting Carbon Nanodots for Multicolor Bioimaging and Optogenetic Control of Ion Channels (Adv. Sci. 11/2017). Advanced Science, 2017, 4, .	11.2	0