

Kyungwha Chung

List of Publications by Year in descending order

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34
papers

1,197
citations

361413

20
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

2496
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Solar Cells: From Rational Design to Mechanism Overview. <i>Chemical Reviews</i> , 2016, 116, 14982-15034.	47.7	333
2	Near-Infrared light-responsive nanomaterials for cancer theranostics. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 23-45.	6.1	115
3	Plasmon-Mediated Electrocatalysis for Sustainable Energy: From Electrochemical Conversion of Different Feedstocks to Fuel Cell Reactions. <i>ACS Energy Letters</i> , 2018, 3, 1415-1433.	17.4	62
4	Systematic Study on the Sensitivity Enhancement in Graphene Plasmonic Sensors Based on Layer-by-Layer Self-Assembled Graphene Oxide Multilayers and Their Reduced Analogues. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 144-151.	8.0	60
5	Synergistic Nanozymetic Activity of Hybrid Gold Bipyramid@Molybdenum Disulfide Core@Shell Nanostructures for Two-Photon Imaging and Anticancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42068-42076.	8.0	53
6	Enhancing Solar Light-Driven Photocatalytic Activity of Mesoporous Carbon-TiO ₂ Hybrid Films via Upconversion Coupling. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1310-1317.	6.7	46
7	Plasmonic Hot Carriers Imaging: Promise and Outlook. <i>ACS Photonics</i> , 2018, 5, 4711-4723.	6.6	46
8	Non-Volatile ReRAM Devices Based on Self-Assembled Multilayers of Modified Graphene Oxide 2D Nanosheets. <i>Small</i> , 2016, 12, 6167-6174.	10.0	42
9	Nanogap-based dielectric-specific colocalization for highly sensitive surface plasmon resonance detection of biotin-streptavidin interactions. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	41
10	Configuration-controlled Au nanocluster arrays on inverse micelle nano-patterns: versatile platforms for SERS and SPR sensors. <i>Nanoscale</i> , 2013, 5, 12261.	5.6	40
11	Perovskite@Gold Nanorod Hybrid Photodetector with High Responsivity and Low Driving Voltage. <i>Advanced Optical Materials</i> , 2018, 6, 1701397.	7.3	36
12	Bimetallic Multifunctional Core@Shell Plasmonic Nanoparticles for Localized Surface Plasmon Resonance Based Sensing and Electrocatalysis. <i>Analytical Chemistry</i> , 2012, 84, 6494-6500.	6.5	35
13	Non-oxidized bare copper nanoparticles with surface excess electrons in air. <i>Nature Nanotechnology</i> , 2022, 17, 285-291.	31.5	34
14	Water- and acid-stable self-passivated dihafnium sulfide electride and its persistent electrocatalytic reaction. <i>Science Advances</i> , 2020, 6, eaba7416.	10.3	30
15	Probing Multiphased Transition in Bulk MoS ₂ by Direct Electron Injection. <i>ACS Nano</i> , 2019, 13, 14437-14446.	14.6	29
16	In Situ Studies of Surface Plasmon Resonance Coupling Sensor Mediated by Stimuli-Sensitive Polymer Linker. <i>Advanced Functional Materials</i> , 2015, 25, 6716-6724.	14.9	23
17	Enhancing the Performance of Surface Plasmon Resonance Biosensor via Modulation of Electron Density at the Graphene@Gold Interface. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800433.	3.7	23
18	Polyethylenimine ethoxylated interlayer-mediated ZnO interfacial engineering for high-performance and low-temperature processed flexible perovskite solar cells: A simple and viable route for one-step processed CH ₃ NH ₃ PbI ₃ . <i>Journal of Power Sources</i> , 2019, 438, 226956.	7.8	22

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19	Layer-by-Layer Self-Assembled Graphene Multilayers as Pt-Free Alternative Counter Electrodes in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11488-11498.	8.0	20
20	Molecular overlap with optical near-fields based on plasmonic nanolithography for ultrasensitive label-free detection by light-matter colocalization. <i>Biosensors and Bioelectronics</i> , 2017, 96, 89-98.	10.1	20
21	Graphene Oxide Shells on Plasmonic Nanostructures Lead to High-Performance Photovoltaics: A Model Study Based on Dye-Sensitized Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 117-123.	17.4	17
22	Viable stretchable plasmonics based on unidirectional nanoprisms. <i>Nanoscale</i> , 2018, 10, 4105-4112.	5.6	16
23	Upconversion-Triggered Charge Separation in Polymer Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 364-369.	4.6	11
24	Multi-layered nanocomposite dielectrics for high density organic memory devices. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	9
25	Optimization of coupled plasmonic effects for viable phosphorescence of metal-free purely organic phosphor. <i>Journal of Applied Physics</i> , 2017, 122, 153103.	2.5	8
26	Sophisticated plasmon-enhanced photo-nanozyme for anti-angiogenic and tumor-microenvironment-responsive combinatorial photodynamic and photothermal cancer therapy. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 106-106.	5.8	8
27	Layer-by-layer self-assembly of bisdendrons: An unprecedented route to multilayer thin films. <i>Macromolecular Research</i> , 2016, 24, 851-855.	2.4	5
28	Electrocatalytic glycerol oxidation enabled by surface plasmon polariton-induced hot carriers in Kretschmann configuration. <i>Nanoscale</i> , 2019, 11, 23234-23240.	5.6	5
29	A simple and efficient strategy for the sensitivity enhancement of DNA hybridization based on the coupling between propagating and localized surface plasmons. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1074-1080.	7.8	4
30	Microwave-assisted hydrothermal synthesis of a high-voltage microcube $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ spinel cathode material. <i>Journal of Electroanalytical Chemistry</i> , 2021, 902, 115798.	3.8	2
31	LSPR Coupling: In Situ Studies of Surface-Plasmon-Resonance-Coupling Sensor Mediated by Stimuli-Sensitive Polymer Linker (<i>Adv. Funct. Mater.</i> 43/2015). <i>Advanced Functional Materials</i> , 2015, 25, 6823-6823.	14.9	1
32	Surface engineering of the electron collecting layers for high performance organic photovoltaic cells. <i>Current Applied Physics</i> , 2017, 17, 1476-1482.	2.4	1
33	Control over the Au@Ag Core-shell Nanoparticle 2D Patterns via Diblock Copolymer Inverse Micelle Templates and Investigation of the Surface Plasmon Based Optical Property. <i>Journal of the Korean Chemical Society</i> , 2013, 57, 618-624.	0.2	0
34	Ultrasensitive colocalization detection based on plasmonic nanolithography with molecular-overlapped optical near-fields. , 2018, , .		0