

Yang-Rae Kim

List of Publications by Year in descending order

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40
papers

2,503
citations

331538

21
h-index

276775

41
g-index

41
all docs

41
docs citations

41
times ranked

4162
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical detection of dopamine in the presence of ascorbic acid using graphene modified electrodes. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2366-2369.	5.3	663
2	Graphene supported electrocatalysts for methanol oxidation. <i>Electrochemistry Communications</i> , 2010, 12, 129-131.	2.3	199
3	Synthesis of a graphene-carbon nanotube composite and its electrochemical sensing of hydrogen peroxide. <i>Electrochimica Acta</i> , 2012, 59, 509-514.	2.6	199
4	Redox-Dependent Spatially Resolved Electrochemistry at Graphene and Graphite Step Edges. <i>ACS Nano</i> , 2015, 9, 3558-3571.	7.3	152
5	Graphene-incorporated chitosan substrata for adhesion and differentiation of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2013, 1, 933.	2.9	144
6	Rhodamine-Based Turn-On-Fluorescent Chemodosimeter for Cu(II) on Ultrathin Platinum Films as Molecular Switches. <i>Advanced Materials</i> , 2008, 20, 4428-4432.	11.1	122
7	A regenerative electrochemical sensor based on oligonucleotide for the selective determination of mercury(II). <i>Analyst, The</i> , 2009, 134, 1857.	1.7	120
8	Highly Sensitive Gold Nanoparticle-Based Colorimetric Sensing of Mercury(II) through Simple Ligand Exchange Reaction in Aqueous Media. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 292-295.	4.0	116
9	Time-Resolved Detection and Analysis of Single Nanoparticle Electrocatalytic Impacts. <i>Journal of the American Chemical Society</i> , 2015, 137, 10902-10905.	6.6	103
10	Chiral gold nanoparticle-based electrochemical sensor for enantioselective recognition of 3,4-dihydroxyphenylalanine. <i>Chemical Communications</i> , 2010, 46, 5665.	2.2	95
11	Impact of Surface Chemistry on Nanoparticle-Electrode Interactions in the Electrochemical Detection of Nanoparticle Collisions. <i>Langmuir</i> , 2015, 31, 11932-11942.	1.6	72
12	Tunable Decoration of Reduced Graphene Oxide with Au Nanoparticles for the Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2014, 24, 2764-2771.	7.8	61
13	Nucleation and Aggregative Growth of Palladium Nanoparticles on Carbon Electrodes: Experiment and Kinetic Model. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17389-17397.	1.5	43
14	Graphene Supported Pd Electrocatalysts for Formic Acid Oxidation. <i>Electrocatalysis</i> , 2010, 1, 139-143.	1.5	36
15	Electrochemical Signal Amplification for Immunosensor Based on 3D Interdigitated Array Electrodes. <i>Analytical Chemistry</i> , 2014, 86, 5991-5998.	3.2	36
16	Charged Nanomatrices as Efficient Platforms for Modulating Cell Adhesion and Shape. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 913-923.	1.1	34
17	Nanoscale Electrocatalysis of Hydrazine Electro-Oxidation at Blistered Graphite Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30458-30466.	4.0	34
18	A BODIPY-functionalized bimetallic probe for sensitive and selective color-fluorometric chemosensing of Hg ²⁺ . <i>Analyst, The</i> , 2012, 137, 3914.	1.7	32

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19	Enhanced electrogenerated chemiluminescence of a ruthenium tris(2,2'-bipyridyl)/tripropylamine system on a boron-doped diamond nanoglass array. <i>Chemical Communications</i> , 2010, 46, 5793.	2.2	30
20	Highly sensitive detection of DNA by electrogenerated chemiluminescence amplification using dendritic Ru(bpy) ₃ ²⁺ -doped silica nanoparticles. <i>Analyst</i> , 2010, 135, 603.	1.7	25
21	Light-guided electrodeposition of non-noble catalyst patterns for photoelectrochemical hydrogen evolution. <i>Energy and Environmental Science</i> , 2015, 8, 3654-3662.	15.6	25
22	In-Channel Electrochemical Detection in the Middle of Microchannel under High Electric Field. <i>Analytical Chemistry</i> , 2012, 84, 901-907.	3.2	20
23	Enhanced electrochemical reactions of 1,4-benzoquinone at nanoporous electrodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10645.	1.3	18
24	Modulation of Quinone PCET Reaction by Ca ²⁺ Ion Captured by Calix[4]quinone in Water. <i>Journal of the American Chemical Society</i> , 2013, 135, 18957-18967.	6.6	18
25	Surface coverage and size effects on electrochemical oxidation of uniform gold nanoparticles. <i>Electrochemistry Communications</i> , 2015, 53, 11-14.	2.3	13
26	Photoelectrochemical and Impedance Spectroscopic Analysis of Amorphous Si for Light-Guided Electrodeposition and Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23698-23706.	4.0	13
27	Controlled extracellular topographical and chemical cues for acceleration of neuronal development. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 61, 65-70.	2.9	12
28	Electrokinetic concentration on a microfluidic chip using polyelectrolytic gel plugs for small molecule immunoassay. <i>Electrochimica Acta</i> , 2013, 110, 164-171.	2.6	10
29	Amperometric Glucose Biosensor Utilizing Zinc Oxide-chitosan-glucose Oxidase Hybrid Composite Films on Electrodeposited Pt-Fe(III). <i>Analytical Sciences</i> , 2018, 34, 1271-1276.	0.8	9
30	Inverted Ion Current Rectification-Based Chemical Delivery Probes for Stimulation of Neurons. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26748-26758.	4.0	9
31	Electrochemically programmed chemodosimeter on ultrathin platinum films. <i>Chemical Communications</i> , 2010, 46, 8448.	2.2	8
32	Tunable Electrochemical Grafting of Diazonium for Highly Sensitive Impedimetric DNA Sensor. <i>Journal of the Electrochemical Society</i> , 2020, 167, 087504.	1.3	7
33	Immunosensor Based on Electrogenerated Chemiluminescence Using Ru(bpy) ₃ ²⁺ -Doped Silica Nanoparticles and Calix[4]crown-5 Self-Assembled Monolayers. <i>Electroanalysis</i> , 2013, 25, 1056-1063.	1.5	5
34	Gold Microshell Tip for In Situ Electrochemical Raman Spectroscopy. <i>Advanced Materials</i> , 2012, 24, 421-424.	11.1	4
35	Synthesis and characterization of novel heteroleptic Ru(II) bipyridine complexes for dye-sensitized solar cell applications. <i>Monatshefte für Chemie</i> , 2019, 150, 1445-1452.	0.9	4
36	Electropolymerization of thiazole derivative bearing thiophene and its application in capacitors and electrochromic devices. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113329.	1.9	4

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37	Electrochemical Impedance Spectroscopy at Well-Controlled dc Bias for Nanoporous Platinum Microelectrodes in Rat Embryo Brain. <i>ChemElectroChem</i> , 2016, 3, 2189-2195.	1.7	2
38	Morphology-Controlled Silver-Containing Rhodium Nanoparticles for the Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2022, 169, 044517.	1.3	2
39	Electropolymerization of thiazole derivatives bearing thiophene and selenophene and the potential application in capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2022, 916, 116386.	1.9	2
40	Graphene: Tunable Decoration of Reduced Graphene Oxide with Au Nanoparticles for the Oxygen Reduction Reaction (<i>Adv. Funct. Mater.</i> 19/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2738-2738.	7.8	1