

# Hasuck Kim

## List of Publications by Year in descending order

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78  
papers

4,701  
citations

117625

34  
h-index

95266

68  
g-index

81  
all docs

81  
docs citations

81  
times ranked

6130  
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.	10.1	663
2	Particle size and alloying effects of Pt-based alloy catalysts for fuel cell applications. <i>Electrochimica Acta</i> , 2000, 45, 4211-4217.	5.2	512
3	Efficient Electrogenerated Chemiluminescence from Cyclometalated Iridium(III) Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 1614-1615.	13.7	310
4	Graphene supported electrocatalysts for methanol oxidation. <i>Electrochemistry Communications</i> , 2010, 12, 129-131.	4.7	199
5	Synthesis of a graphene-carbon nanotube composite and its electrochemical sensing of hydrogen peroxide. <i>Electrochimica Acta</i> , 2012, 59, 509-514.	5.2	199
6	Color Tuning of Cyclometalated Iridium Complexes through Modification of Phenylpyrazole Derivatives and Ancillary Ligand Based on ab Initio Calculations. <i>Organometallics</i> , 2005, 24, 1578-1585.	2.3	138
7	Sulfonated Graphene-Nafion Composite Membranes for Polymer Electrolyte Fuel Cells Operating under Reduced Relative Humidity. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15855-15866.	3.1	128
8	Rhodamine-Based Fluorescent Chemodosimeter for Cu(II) on Ultrathin Platinum Films as Molecular Switches. <i>Advanced Materials</i> , 2008, 20, 4428-4432.	21.0	122
9	A regenerative electrochemical sensor based on oligonucleotide for the selective determination of mercury(II). <i>Analyst</i> , 2009, 134, 1857.	3.5	120
10	Highly Sensitive Gold Nanoparticle-Based Colorimetric Sensing of Mercury(II) through Simple Ligand Exchange Reaction in Aqueous Media. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 292-295.	8.0	116
11	Studies on the anode catalysts of carbon nanotube for DMFC. <i>Electrochimica Acta</i> , 2004, 50, 791-794.	5.2	104
12	Preparation and characterization of palladium-nickel on graphene oxide support as anode catalyst for alkaline direct ethanol fuel cell. <i>Applied Catalysis A: General</i> , 2017, 531, 29-35.	4.3	100
13	Performance and stability of Pt-based ternary alloy catalysts for PEMFC. <i>Electrochimica Acta</i> , 2006, 52, 1603-1611.	5.2	98
14	Porous Carbon Supports Prepared by Ultrasonic Spray Pyrolysis for Direct Methanol Fuel Cell Electrodes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10959-10964.	3.1	87
15	Efficient Electrogenerated Chemiluminescence from Bis-Cyclometalated Iridium(III) Complexes with Substituted 2-Phenylquinoline Ligands. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2280-2286.	3.1	84
16	Electrogenerated Chemiluminescent Anion Sensing: Selective Recognition and Sensing of Pyrophosphate. <i>Analytical Chemistry</i> , 2010, 82, 8259-8265.	6.5	75
17	Enhancement of Electrogenerated Chemiluminescence and Radical Stability by Peripheral Multidonors on Alkynylpyrene Derivatives. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2522-2524.	13.8	67
18	Preparation of cost-effective Pt-Co electrodes by pulse electrodeposition for PEMFC electrocatalysts. <i>Electrochimica Acta</i> , 2011, 56, 3036-3041.	5.2	63

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19	Organosilicate thin film containing Ru(bpy) <sub>3</sub> <sup>2+</sup> for an electrogenerated chemiluminescence (ECL) sensor. Electronic supplementary information (ESI) available: experimental details. See <a href="http://www.rsc.org/suppdata/cc/b3/b303766e/">http://www.rsc.org/suppdata/cc/b3/b303766e/</a> . <i>Chemical Communications</i> , 2003, , 1602.	4.1	59
20	Heat treatment and potential cycling effects on surface morphology, particle size, and catalytic activity of Pt/C catalysts studied by <sup>13</sup> C NMR, TEM, XRD and CV. <i>Electrochemistry Communications</i> , 2007, 9, 317-324.	4.7	59
21	Microwave-assisted synthesis of graphene modified CuO nanoparticles for voltammetric enzyme-free sensing of glucose at biological pH values. <i>Mikrochimica Acta</i> , 2018, 185, 57.	5.0	56
22	Photoeffects at Polycrystalline Tin Oxide Electrodes. <i>Journal of the Electrochemical Society</i> , 1975, 122, 53-58.	2.9	54
23	Enhanced electrocatalysis of PtRu onto graphene separated by Vulcan carbon spacer. <i>Journal of Power Sources</i> , 2013, 222, 261-266.	7.8	51
24	Electrochemical detection of nanomolar dopamine in the presence of neurophysiological concentration of ascorbic acid and uric acid using charge-coated carbon nanotubes via facile and green preparation. <i>Talanta</i> , 2016, 147, 453-459.	5.5	49
25	Self-Assembled Monolayer of a Redox-Active Calix[4]arene: Voltammetric Recognition of the Ba <sup>2+</sup> Ion in Aqueous Media. <i>Analytical Chemistry</i> , 2001, 73, 3975-3980.	6.5	46
26	A new enzyme-free biosensor based on nitrogen-doped graphene with high sensing performance for electrochemical detection of glucose at biological pH value. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 322-330.	7.8	46
27	Preparation of low Pt loading electrodes on Nafion (Na <sup>+</sup> )-bonded carbon layer with galvanostatic pulses for PEMFC application. <i>Journal of Power Sources</i> , 2006, 163, 349-356.	7.8	45
28	Preparation and characterization of high metal content Pt-Ru alloy catalysts on various carbon blacks for DMFCs. <i>Electrochimica Acta</i> , 2006, 52, 1697-1702.	5.2	40
29	Diazo-coupled calix[4]arenes for qualitative analytical screening of metal ions. <i>Talanta</i> , 2008, 74, 1654-1658.	5.5	40
30	Multisignaling metal sensor: Optical, electrochemical, and electrochemiluminescent responses of cruciform-shaped alkynylpyrene for selective recognition of Fe <sup>3+</sup> . <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 813-817.	7.8	37
31	Electrochemistry of Calixarene and its Analytical Applications. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1998, 32, 179-193.	1.6	36
32	Preparation of Pt-Ru catalysts on Nafion(Na <sup>+</sup> )-bonded carbon layer using galvanostatic pulse electrodeposition for proton-exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2009, 187, 363-370.	7.8	36
33	Graphene Supported Pd Electrocatalysts for Formic Acid Oxidation. <i>Electrocatalysis</i> , 2010, 1, 139-143.	3.0	36
34	Electrochemical codeposition of Pt/graphene catalyst for improved methanol oxidation. <i>Current Applied Physics</i> , 2015, 15, 219-225.	2.4	35
35	Electrochemical behavior of calix[4]arenequinones and their cation binding properties. <i>Journal of Electroanalytical Chemistry</i> , 1995, 396, 431-439.	3.8	34
36	Iron-phosphate-platinum-carbon nanocomposites for enhanced electrocatalytic stability. <i>Applied Physics Letters</i> , 2007, 91, 113101.	3.3	32

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37	Transition metal ion selective ortho-ester diazophenylcalix[4]arene. <i>Talanta</i> , 2007, 71, 1294-1297.	5.5	32
38	Tungsten carbide on directly grown multiwalled carbon nanotube as a co-catalyst for methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 265-272.	20.2	31
39	Synthesis and electrocatalytic performance of high loading active PtRu multiwalled carbon nanotube catalyst for methanol oxidation. <i>Electrochimica Acta</i> , 2012, 71, 246-251.	5.2	31
40	Voltammetric studies of thiacalix[4]arene and p-tert-butylthiacalix[4]arene and their analytical application. <i>Electrochimica Acta</i> , 2004, 49, 3759-3763.	5.2	30
41	Determination of biologically active acids based on the electrochemical reduction of quinone in acetonitrile+water mixed solvent. <i>Journal of Electroanalytical Chemistry</i> , 2001, 499, 78-84.	3.8	28
42	A highly sensitive and selective biosensor based on nitrogen-doped graphene for non-enzymatic detection of uric acid and dopamine at biological pH value. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 34-41.	3.8	28
43	Iron Phosphide Incorporated into Iron-Treated Heteroatoms-Doped Porous Bio-Carbon as Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018, 5, 1944-1953.	3.4	28
44	X-Ray absorption spectroscopic and electrochemical analyses of Pt-Cu-Fe ternary alloy electrocatalysts supported on carbon. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 2835-2841.	1.7	27
45	Highly active 40wt.% PtRu/C anode electrocatalysts for PEMFCs prepared by an improved impregnation method. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1803-1812.	7.1	27
46	Facile enhancement of the active catalytic sites of N-doped graphene as a high performance metal-free electrocatalyst for oxygen reduction reaction. <i>Applied Surface Science</i> , 2018, 447, 182-190.	6.1	27
47	A combined physicochemical and electrocatalytic study of microwave synthesized tungsten mono-carbide nanoparticles on multiwalled carbon nanotubes as a co-catalyst for a proton-exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 15706-15717.	7.1	26
48	Highly sensitive detection of DNA by electrogenerated chemiluminescence amplification using dendritic Ru(bpy) <sub>3</sub> <sup>2+</sup> -doped silica nanoparticles. <i>Analyst, The</i> , 2010, 135, 603.	3.5	25
49	Synthesis of multiwall carbon nanotubes with a high loading of Pt by a microwave-assisted impregnation method for use in the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2013, 108, 769-775.	5.2	25
50	Interaction between various alkylammonium ions and quinone-derivatized calix[4]arenes in aprotic media. <i>Journal of Electroanalytical Chemistry</i> , 1997, 438, 71-78.	3.8	24
51	Efficient green-colored electrochemiluminescence from cyclometalated iridium(III) complex. <i>Electrochimica Acta</i> , 2011, 56, 6219-6223.	5.2	24
52	Electrochemical recognition of Ca <sup>2+</sup> ion in basic aqueous media using quinone-derivatized calix[4]arene. <i>Electrochimica Acta</i> , 2000, 45, 2939-2943.	5.2	22
53	Evaluation of electrogenerated chemiluminescence from a neutral Ir(III) complex for quantitative analysis in flowing streams. <i>Analyst, The</i> , 2011, 136, 2151.	3.5	22
54	Microwave-assisted synthesis and characterization of bimetallic PtRu alloy nanoparticles supported on carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2015, 649, 1323-1328.	5.5	22

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55	Electrochemical recognition of ammonium and alkali metal cations with calix[4]arenequinone. <i>Journal of Electroanalytical Chemistry</i> , 1995, 387, 133-134.	3.8	19
56	Spectroscopic and electrochemical studies of two distal diethyl ester azocalix[4]arene derivatives. <i>Journal of Electroanalytical Chemistry</i> , 2009, 628, 119-124.	3.8	17
57	Electrochemical Determination of Adsorption Isotherm of Mordant Red 19 on Mercury and Its Analytical Application for the Indirect Determination of Uranium. <i>Electroanalysis</i> , 2000, 12, 477-482.	2.9	13
58	Selective electrochemical recognition of ions in solution and at self-assembled monolayers. <i>Microchemical Journal</i> , 2001, 68, 109-113.	4.5	13
59	Performance and stability studies of PtCr/C alloy catalysts for oxygen reduction reaction in low temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17557-17566.	7.1	13
60	Pulse electrodeposited PtSn electrocatalyst on a PEDOT/graphene-based electrode for ethanol oxidation in an acidic medium. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19930-19938.	7.1	13
61	Indirect voltammetric determination of lanthanides in the presence of mordant red 19. <i>Electroanalysis</i> , 1997, 9, 527-532.	2.9	11
62	Synthesis and Electrochemical Behavior of a New Water Soluble Ca <sup>2+</sup> -selective Ionophore Based on Calix[4]arene-triacid-monoquinone. <i>Chemistry Letters</i> , 1998, 27, 1225-1226.	1.3	11
63	In situ Scanning Tunneling Microscopy of the Electrochemical Deposition of Ag on Graphite. <i>Analytical Sciences</i> , 1996, 12, 321-326.	1.6	9
64	Synthesis and Electrochemical Properties of Calix[4]arene-triester-monoquinones. <i>Supramolecular Chemistry</i> , 1998, 9, 221-229.	1.2	8
65	Electrochemically programmed chemodosimeter on ultrathin platinum films. <i>Chemical Communications</i> , 2010, 46, 8448.	4.1	8
66	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1998, 31, 119-129.	1.6	7
67	Calcium Ion <sup>2+</sup> Calixquinone Complexes Adsorbed on a Silver Electrode. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19981-19985.	3.1	5
68	Efficient electrogenerated chemiluminescence from CdTe quantum dots with coreactants. <i>Journal of Electroanalytical Chemistry</i> , 2011, 663, 24-29.	3.8	5
69	Immunosensor Based on Electrogenerated Chemiluminescence Using Ru(bpy) <sub>3</sub> <sup>2+</sup> -Doped Silica Nanoparticles and Calix[4]crown <sup>5</sup> Self-Assembled Monolayers. <i>Electroanalysis</i> , 2013, 25, 1056-1063.	2.9	5
70	Crystal structure and size distribution of Pt-Cu-Fe alloy clusters supported on carbon black. <i>Catalysis Letters</i> , 1996, 37, 41-46.	2.6	4
71	Voltammetric studies for cation recognition with thiacalix[4]crown-6s. <i>Journal of Electroanalytical Chemistry</i> , 2008, 615, 103-109.	3.8	4
72	Spectrophotometric and Electrochemical Study of Cu <sup>2+</sup> -Selective Azocalix[4]arene Bearing p-Carboxyl group. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 3377-3380.	1.9	4

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73	New Potassium-Selective Electrode Based on an Ionophoric Bis(15-crown-5 ether) Derived from Xanthene-4,5-Dicarboxylic Acid.. Analytical Sciences, 1997, 13, 325-328.	1.6	3
74	Electrochemical and spectroscopic studies on redox-switching behavior of quinone-derivatized supramolecules. Current Applied Physics, 2009, 9, e256-e258.	2.4	1
75	Electrochemical Recognition of Ions with Self-assembled Monlayers of Calixarenes. Molecular Crystals and Liquid Crystals, 2001, 371, 57-62.	0.3	0
76	Electrochemical Recognition of Ions with Self-Assembled Monolayers of Quinone Derivatized Calixarene Disulfide. Studies in Surface Science and Catalysis, 2001, 132, 967-972.	1.5	0
77	Factors for the Improvement of DMFC Performance. ECS Meeting Abstracts, 2011, , .	0.0	0
78	Effective Use of Catalysts in Low Temperature Fuel Cells. ECS Meeting Abstracts, 2012, , .	0.0	0