Jun-Hyun Kim

List of Publications by Year
in descending order

50	1,642	471061 17	288905 40
papers	citations	h-index	g-index

52	52	52	2600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Allosteric Supramolecular Triple-Layer Catalysts. Science, 2010, 330, 66-69.	6.0	290
2	Thermo- and pH-Responsive Hydrogel-Coated Gold Nanoparticles. Chemistry of Materials, 2004, 16, 3647-3651.	3.2	183
3	Preparation, Characterization, and Optical Properties of Gold, Silver, and Goldâ^'Silver Alloy Nanoshells Having Silica Cores. Langmuir, 2008, 24, 11147-11152.	1.6	141
4	Hydrogel-Templated Growth of Large Gold Nanoparticles:â€‰ Synthesis of Thermally Responsive Hydrogelâ^'Nanoparticle Composites. Langmuir, 2007, 23, 6504-6509.	1.6	99
5	Discrete thermally responsive hydrogel-coated gold nanoparticles for use as drug-delivery vehicles. Drug Development Research, 2006, 67, 61-69.	1.4	79
6	Ultrasmall Hollow Goldâ€“Silver Nanoshells with Extinctions Strongly Red-Shifted to the Near-Infrared. ACS Applied Materials & Interfaces, 2011, 3, 3616-3624.	4.0	75
7	Electrospun PANâ€“GO composite nanofibers as water purification membranes. Journal of Applied Polymer Science, 2018, 135, 45858.	1.3	62
8	Integrating SERS and PSI-MS with Dual Purpose Plasmonic Paper Substrates for On-Site Illicit Drug Confirmation. Analytical Chemistry, 2020, 92, 6676-6683.	3.2	53
9	Preparation and Characterization of Palladium Shells with Gold and Silica Cores. Chemistry of Materials, 2006, 18, 4115-4120.	3.2	48
10	Preparation of Polybenzimidazole-Based Membranes and Their Potential Applications in the Fuel Cell System. Energies, 2014, 7, 1721-1732.	1.6	45
11	Sunlight-Induced Synthesis of Various Gold Nanoparticles and Their Heterogeneous Catalytic Properties on a Paper-Based Substrate. ACS Applied Materials & Interfaces, 2014, 6, 11514-11522.	4.0	41
12	Gold, Palladium, and Goldâ^'Palladium Alloy Nanoshells on Silica Nanoparticle Cores. ACS Applied Materials & Interfaces, 2009, 1, 1063-1069.	4.0	36
13	Thermally tunable catalytic and optical properties of goldâ€“hydrogel nanocomposites. Nanotechnology, 2012, 23, 275606.	1.3	33
14	Silverâ€“Gold Bimetallic Nanoparticles and Their Applications as Optical Materials. Journal of Nanoscience and Nanotechnology, 2014, 14, 1563-1577.	0.9	33
15	Regulating the Catalytic Function of Reduced Graphene Oxides Using Capping Agents for Metal-Free Catalysis. ACS Applied Materials & Interfaces, 2017, 9, 1692-1701.	4.0	32
16	Gold-Nanoparticle-Embedded Poly(N-isopropylacrylamide) Microparticles for Selective Quasi-Homogeneous Catalytic Homocoupling Reactions. ACS Applied Nano Materials, 2019, 2, 6057-6066.	2.4	31
17	Palladium nanoshells coated with self-assembled monolayers and their catalytic properties. RSC Advances, 2012, 2, 3968.	1.7	24
18	Rapid vertical flow immunoassay on AuNP plasmonic paper for SERS-based point of need diagnostics. Talanta, 2021, 223, 121739.	2.9	20

#	Article	IF	Citations
19	Rapid formation of polyimide nanofiber membranes via hot-press treatment and their performance as Li-ion battery separators. RSC Advances, 2018, 8, 14958-14966.	1.7	18
20	Rapid preparation of paper-based plasmonic platforms for SERS applications. Materials Chemistry and Physics, 2020, 240, 122124.	2.0	18
21	In Situ Formation of Gold Nanoparticles within a Polymer Particle and Their Catalytic Activities in Various Chemical Reactions. ChemPhysChem, 2019, 20, 70-77.	1.0	17
22	Controlled synthesis of gold nanoparticles by fluorescent light irradiation. Nanotechnology, 2011, 22, 285602.	1.3	16
23	Photothermal heating property of gold nanoparticle loaded substrates and their SERS response. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 498, 20-29.	2.3	16
24	Ag/Au/Pt trimetallic nanoparticles with defects: preparation, characterization, and electrocatalytic activity in methanol oxidation. Nanotechnology, 2017, 28, 375602.	1.3	16
25	Mixed Dye Removal Efficiency of Electrospun Polyacrylonitrileâ€“Graphene Oxide Composite Membranes. Polymers, 2020, 12, 2009.	2.0	16
26	Building Conjugated Organic Structures on Si(111) Surfaces via Microwave-Assisted Sonogashira Coupling. Langmuir, 2010, 26, 3771-3773.	1.6	15
27	Plasmon-enhanced electrocatalysis from synergistic hybrids of noble metal nanocrystals. Current Opinion in Electrochemistry, 2017, 4, 11-17.	2.5	14
28	One-pot synthesis of various Agâ€“Au bimetallic nanoparticles with tunable absorption properties at room temperature. Gold Bulletin, 2013, 46, 185-193.	1.1	13
29	Encapsulated Gold Nanoparticles as a Reactive Quasiâ€Homogeneous Catalyst in Baseâ€Free Aerobic Homocoupling Reactions. ChemCatChem, 2020, 12, 705-709.	1.8	13
30	Atypical catalytic function of embedded gold nanoparticles by controlling structural features of polymer particle in alcohol-rich solvents. Nanotechnology, 2019, 30, 285704.	1.3	12
31	Aliphatic dithiocarboxylic acids: New adsorbates for soft lithographic patterning. Applied Surface Science, 2008, 254, 7064-7068.	3.1	11
32	Regulating the integrity of diverse composite nanofiber membranes using an organoclay. Journal of Membrane Science, 2020, 598, 117670.	4.1	11
33	Probing Surface-Adlayer Conjugation on Organic-Modified Si(111) Surfaces with Microscopy, Scattering, Spectroscopy, and Density Functional Theory. Journal of Physical Chemistry C, 2009, 113, 2919-2927.	1.5	10
34	Sandwiching analytes with structurally diverse plasmonic nanoparticles on paper substrates for surface enhanced Raman spectroscopy. RSC Advances, 2019, 9, 32535-32543.	1.7	10
35	Comparative Catalytic Properties of Supported and Encapsulated Gold Nanoparticles in Homocoupling Reactions. Frontiers in Chemistry, 2020, 8, 834.	1.8	10
36	Stimuli-Responsive Hollow Polymer Nanoparticles for Use as Novel Delivery Systems. Journal of Biomedical Nanotechnology, 2012, 8, 432-438.	0.5	8

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37	Enhanced Stability of Anisotropic Gold Nanoparticles by Poly(N-isopropylacrylamide). Journal of Materials Science and Technology, 2014, 30, 441-448.	5.6	8
38	Polyacrylonitrile nanofiber membranes incorporated with large reduced graphene oxide content in situ. Journal of Materials Science, 2021, 56, 18508-18521.	1.7	8
39	Effects of crosslinking density on the in situ formation of gold-polymer composite particles and their catalytic properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 640, 128409.	2.3	8
40	Assembly of Short-Chain Amphiphilic Homopolymers into Well-Defined Particles. Langmuir, 2020, 36, 4548-4555.	1.6	7
41	Photothermally enhanced catalytic activity of partially aggregated gold nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	6
42	Polymer particles filled with multiple colloidal silica viain situsol-gel process and their thermal property. Nanotechnology, 2017, 28, 025601.	1.3	6
43	Controlling the formation of encapsulated gold nanoparticles for highly reactive catalysts in the homocoupling of phenylboronic acid. Catalysis Today, 2020, , .	2.2	6
44	Atomic-scale X-ray structural analysis of self-assembled monolayers on Silicon. European Physical Journal: Special Topics, 2009, 167, 33-39.	1.2	5
45	Preparation of Gold Nanoparticle Aggregates and Their Photothermal Heating Property. Journal of Nanoscience and Nanotechnology, 2011, 11, 45-52.	0.9	5
46	Sub-100 nm anisotropic gold nanoparticles as surface-enhanced Raman spectroscopy substrates. Nanotechnology, 2015, 26, 345701.	1.3	4
47	A strategy to design biocompatible polymer particles possessing increased loading efficiency and controlled-release properties. RSC Advances, 2014, 4, 39287.	1.7	3
48	Systematic Incorporation of Gold Nanoparticles onto Mesoporous Titanium Oxide Particles for Green Catalysts. Catalysts, 2021, 11, 451.	1.6	3
49	Preparation and Optimization of Composition of Medical X-ray Shielding Sheet Using Tungsten. Porrime, 2019, 43, 346-350.	0.0	2
50	Polymerâ€"Inorganic Nanocomposites from Si-Based Substrates: Applications of Ring-Opening Metathesis Polymerization. ACS Symposium Series, 2008, , 303-321.	0.5	1