Jun-Hyun Kim

List of Publications by Citations

49 papers	1,349 citations	16 h-index	36 g-index
52 ext. papers	1,507 ext. citations	5.2 avg, IF	4.79 L-index

#	Paper	IF	Citations
49	Allosteric supramolecular triple-layer catalysts. *Science*, **2010**, 330, 66-9	33.3	254
48	Thermo- and pH-Responsive Hydrogel-Coated Gold Nanoparticles. *Chemistry of Materials*, **2004**, 16, 3647-3651	9.6	175
47	Preparation, characterization, and optical properties of gold, silver, and gold-silver alloy nanoshells having silica cores. *Langmuir*, **2008**, 24, 11147-52	4	129
46	Hydrogel-templated growth of large gold nanoparticles: synthesis of thermally responsive hydrogel-nanoparticle composites. *Langmuir*, **2007**, 23, 6504-9	4	95
45	Discrete thermally responsive hydrogel-coated gold nanoparticles for use as drug-delivery vehicles. *Drug Development Research*, **2006**, 67, 61-69	5.1	70
44	Ultrasmall hollow gold-silver nanoshells with extinctions strongly red-shifted to the near-infrared. *ACS Applied Materials & Interfaces*, **2011**, 3, 3616-24	9.5	67
43	Electrospun PAN□TiO composite nanofibers as water purification membranes. *Journal of Applied Polymer Science*, **2018**, 135, 45858	2.9	45
42	Preparation and Characterization of Palladium Shells with Gold and Silica Cores. *Chemistry of Materials*, **2006**, 18, 4115-4120	9.6	45
41	Preparation of Polybenzimidazole-Based Membranes and Their Potential Applications in the Fuel Cell System. *Energies*, **2014**, 7, 1721-1732	3.1	35
40	Sunlight-induced synthesis of various gold nanoparticles and their heterogeneous catalytic properties on a paper-based substrate. *ACS Applied Materials & Interfaces*, **2014**, 6, 11514-22	9.5	34
39	Gold, palladium, and gold-palladium alloy nanoshells on silica nanoparticle cores. *ACS Applied Materials & Interfaces*, **2009**, 1, 1063-9	9.5	34
38	Thermally tunable catalytic and optical properties of gold-hydrogel nanocomposites. *Nanotechnology*, **2012**, 23, 275606	3.4	29
37	Silver-gold bimetallic nanoparticles and their applications as optical materials. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 1563-77	1.3	26
36	Palladium nanoshells coated with self-assembled monolayers and their catalytic properties. *RSC Advances*, **2012**, 2, 3968	3.7	24
35	Integrating SERS and PSI-MS with Dual Purpose Plasmonic Paper Substrates for On-Site Illicit Drug Confirmation. *Analytical Chemistry*, **2020**, 92, 6676-6683	7.8	23
34	Regulating the Catalytic Function of Reduced Graphene Oxides Using Capping Agents for Metal-Free Catalysis. *ACS Applied Materials & Interfaces*, **2017**, 9, 1692-1701	9.5	20
33	Building conjugated organic structures on Si(111) surfaces via microwave-assisted Sonogashira coupling. *Langmuir*, **2010**, 26, 3771-3	4	15

32	Gold-Nanoparticle-Embedded Poly(N-isopropylacrylamide) Microparticles for Selective Quasi-Homogeneous Catalytic Homocoupling Reactions. *ACS Applied Nano Materials*, **2019**, 2, 6057-6066	5.6	14
31	Controlled synthesis of gold nanoparticles by fluorescent light irradiation. *Nanotechnology*, **2011**, 22, 285602	3.4	13
30	Photothermal heating property of gold nanoparticle loaded substrates and their SERS response. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 498, 20-29	5.1	13
29	Plasmon-enhanced electrocatalysis from synergistic hybrids of noble metal nanocrystals. *Current Opinion in Electrochemistry*, **2017**, 4, 11-17	7.2	12
28	Ag/Au/Pt trimetallic nanoparticles with defects: preparation, characterization, and electrocatalytic activity in methanol oxidation. *Nanotechnology*, **2017**, 28, 375602	3.4	12
27	Rapid preparation of paper-based plasmonic platforms for SERS applications. *Materials Chemistry and Physics*, **2020**, 240, 122124	4.4	12
26	Rapid vertical flow immunoassay on AuNP plasmonic paper for SERS-based point of need diagnostics. *Talanta*, **2021**, 223, 121739	6.2	12
25	Rapid formation of polyimide nanofiber membranes hot-press treatment and their performance as Li-ion battery separators.. *RSC Advances*, **2018**, 8, 14958-14966	3.7	11
24	One-pot synthesis of various Ag□Au bimetallic nanoparticles with tunable absorption properties at room temperature. *Gold Bulletin*, **2013**, 46, 185-193	1.6	11
23	Aliphatic dithiocarboxylic acids: New adsorbates for soft lithographic patterning. *Applied Surface Science*, **2008**, 254, 7064-7068	6.7	11
22	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	3.8	10
21	Mixed Dye Removal Efficiency of Electrospun Polyacrylonitrile-Graphene Oxide Composite Membranes. *Polymers*, **2020**, 12,	4.5	10
20	Stimuli-responsive hollow polymer nanoparticles for use as novel delivery systems. *Journal of Biomedical Nanotechnology*, **2012**, 8, 432-8	4	8
19	In Situ Formation of Gold Nanoparticles within a Polymer Particle and Their Catalytic Activities in Various Chemical Reactions. *ChemPhysChem*, **2019**, 20, 70-77	3.2	8
18	Atypical catalytic function of embedded gold nanoparticles by controlling structural features of polymer particle in alcohol-rich solvents. *Nanotechnology*, **2019**, 30, 285704	3.4	7
17	Regulating the integrity of diverse composite nanofiber membranes using an organoclay. *Journal of Membrane Science*, **2020**, 598, 117670	9.6	7
16	Sandwiching analytes with structurally diverse plasmonic nanoparticles on paper substrates for surface enhanced Raman spectroscopy.. *RSC Advances*, **2019**, 9, 32535-32543	3.7	7
15	Enhanced Stability of Anisotropic Gold Nanoparticles by Poly(N-isopropylacrylamide). *Journal of Materials Science and Technology*, **2014**, 30, 441-448	9.1	6

14	Encapsulated Gold Nanoparticles as a Reactive Quasi-Homogeneous Catalyst in Base-Free Aerobic Homocoupling Reactions. *ChemCatChem*, **2020**, 12, 705-709	5.2	6
13	Photothermally enhanced catalytic activity of partially aggregated gold nanoparticles. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	5
12	Atomic-scale X-ray structural analysis of self-assembled monolayers on Silicon. *European Physical Journal: Special Topics*, **2009**, 167, 33-39	2.3	5
11	Preparation of gold nanoparticle aggregates and their photothermal heating property. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 45-52	1.3	5
10	Comparative Catalytic Properties of Supported and Encapsulated Gold Nanoparticles in Homocoupling Reactions. *Frontiers in Chemistry*, **2020**, 8, 834	5	5
9	Polymer particles filled with multiple colloidal silica via in situ sol-gel process and their thermal property. *Nanotechnology*, **2017**, 28, 025601	3.4	4
8	Assembly of Short-Chain Amphiphilic Homopolymers into Well-Defined Particles. *Langmuir*, **2020**, 36, 4548-4555	4	4
7	Sub-100 nm anisotropic gold nanoparticles as surface-enhanced Raman spectroscopy substrates. *Nanotechnology*, **2015**, 26, 345701	3.4	3
6	A strategy to design biocompatible polymer particles possessing increased loading efficiency and controlled-release properties. *RSC Advances*, **2014**, 4, 39287	3.7	3
5	Preparation and Optimization of Composition of Medical X-ray Shielding Sheet Using Tungsten. *Porrime*, **2019**, 43, 346-350	1	2
4	Polymer–Inorganic Nanocomposites from Si-Based Substrates: Applications of Ring-Opening Metathesis Polymerization. *ACS Symposium Series*, **2008**, 303-321	0.4	1
3	Systematic Incorporation of Gold Nanoparticles onto Mesoporous Titanium Oxide Particles for Green Catalysts. *Catalysts*, **2021**, 11, 451	4	1
2	Polyacrylonitrile nanofiber membranes incorporated with large reduced graphene oxide content in situ. *Journal of Materials Science*, **2021**, 56, 18508	4.3	1
1	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	5.1	0