

Young-Seok Shon

List of Publications by Citations

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79
papers

5,626
citations

32
h-index

74
g-index

82
ext. papers

5,870
ext. citations

5.3
avg, IF

5.32
L-index

#	Paper	IF	Citations
79	Fullerene pipes. <i>Science</i> , 1998 , 280, 1253-6	33.3	2866
78	The Influence of Packing Densities and Surface Order on the Frictional Properties of Alkanethiol Self-Assembled Monolayers (SAMs) on Gold: A Comparison of SAMs Derived from Normal and Spiroalkanedithiols. <i>Langmuir</i> , 2000 , 16, 2220-2224	4	144
77	Spiroalkanedithiol-Based SAMs Reveal Unique Insight into the Wettabilities and Frictional Properties of Organic Thin Films. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7556-7563	16.4	138
76	Aqueous synthesis of alkanethiolate-protected Ag nanoparticles using Bunte salts. <i>Langmuir</i> , 2004 , 20, 6626-30	4	113
75	Systematic control of the packing density of self-assembled monolayers using bidentate and tridentate chelating alkanethiols. <i>Langmuir</i> , 2005 , 21, 2902-11	4	106
74	Structure, Wettability, and Frictional Properties of Phenyl-Terminated Self-Assembled Monolayers on Gold. <i>Langmuir</i> , 2001 , 17, 7364-7370	4	105
73	Catalytic ring-closing olefin metathesis of sulfur-containing species: Heteroatom and other effects. <i>Tetrahedron Letters</i> , 1997 , 38, 1283-1286	2	86
72	Synthesis of tetraoctylammonium-protected gold nanoparticles with improved stability. <i>Langmuir</i> , 2005 , 21, 5689-92	4	86
71	Desorption and Exchange of Self-Assembled Monolayers (SAMs) on Gold Generated from Chelating Alkanedithiols. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8192-8200	3.4	82
70	Monolayer-Protected Bimetal Cluster Synthesis by Core Metal Galvanic Exchange Reaction. <i>Langmuir</i> , 2002 , 18, 3880-3885	4	81
69	Nanoscale near-field infrared spectroscopic imaging of silica-shell/gold-core and pure silica nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	75
68	Alkanethiolate-Protected Gold Clusters Generated from Sodium S-Dodecylthiosulfate (Bunte Salts). <i>Langmuir</i> , 2000 , 16, 6555-6561	4	74
67	Unsymmetrical Disulfides and Thiol Mixtures Produce Different Mixed Monolayer-Protected Gold Clusters. <i>Langmuir</i> , 2001 , 17, 7735-7741	4	73
66	Low-Density Self-Assembled Monolayers on Gold Derived from Chelating 2-Monoalkylpropane-1,3-dithiols. <i>Langmuir</i> , 2000 , 16, 541-548	4	71
65	The Adsorption of Unsymmetrical Spiroalkanedithiols onto Gold Affords Multi-Component Interfaces that Are Homogeneously Mixed at the Molecular Level. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1278-1281	16.4	61
64	Pd Nanoparticle-Catalyzed Isomerization vs Hydrogenation of Allyl Alcohol: Solvent-Dependent Regioselectivity. <i>ACS Catalysis</i> , 2012 , 2, 1838-1845	13.1	60
63	Synthesis of Mixed Monolayer-Protected Gold Clusters from Thiol Mixtures: Variation in the Tail Group, Chain Length, and Solvent. <i>Langmuir</i> , 2003 , 19, 8555-8559	4	60

62	Controlling surface ligand density and core size of alkanethiolate-capped Pd nanoparticles and their effects on catalysis. <i>Langmuir</i> , 2012 , 28, 14502-8	4	56
61	Water-Soluble, Sulfonic Acid-Functionalized, Monolayer-Protected Nanoparticles and an Ionically Conductive Molten Salt Containing Them. <i>Langmuir</i> , 2001 , 17, 1255-1261	4	56
60	Fullerene-Terminated Alkanethiolate SAMs on Gold Generated from Unsymmetrical Disulfides. <i>Langmuir</i> , 1999 , 15, 5329-5332	4	55
59	Chelating Self-Assembled Monolayers on Gold Generated from Spiroalkanedithiols. <i>Langmuir</i> , 1999 , 15, 1136-1140	4	53
58	Chemical, Thermal, and Ultrasonic Stability of Hybrid Nanoparticles and Nanoparticle Multilayer Films. <i>Chemistry of Materials</i> , 2006 , 18, 107-114	9.6	49
57	Synthesis and catalytic properties of alkanethiolate-capped Pd nanoparticles generated from sodium S-dodecylthiosulfate. <i>Journal of Materials Chemistry</i> , 2011 , 21, 307-312		44
56	Catalytic isomerization of allyl alcohols to carbonyl compounds using poisoned Pd nanoparticles. <i>Applied Catalysis A: General</i> , 2011 , 405, 137-141	5.1	41
55	Preparation of Nanostructured Film Arrays for Transmission Localized Surface Plasmon Sensing. <i>Plasmonics</i> , 2009 , 4, 95-105	2.4	40
54	Catalytic Properties of Unsupported Palladium Nanoparticle Surfaces Capped with Small Organic Ligands. <i>ChemCatChem</i> , 2015 , 7, 892-900	5.2	38
53	Hybrid lipid-nanoparticle complexes for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 695-708	7.3	36
52	Fullerene-functionalized gold nanoparticles: electrochemical and spectroscopic properties. <i>Analytical Chemistry</i> , 2004 , 76, 6102-7	7.8	36
51	Water-soluble Pd nanoparticles synthesized from β -carboxyl-S-alkanethiosulfate ligand precursors as unimolecular micelle catalysts. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12432-40	9.5	32
50	[60]Fullerene-linked gold nanoparticles: synthesis and layer-by-layer growth on a solid surface. <i>Chemical Communications</i> , 2002 , 2560-2561	5.8	32
49	A Steady-State Kinetic Model Can Be Used to Describe the Growth of Self-Assembled Monolayers (SAMs) on Gold. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8182-8191	3.4	32
48	Interactions of Small Molecules and Au Nanoparticles with Solubilized Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3726-3732	3.4	31
47	Structural characterization and frictional properties of C60-terminated self-assembled monolayers on Au(111). <i>Thin Solid Films</i> , 2000 , 358, 152-158	2.2	31
46	Thiol-Capped Gold Nanoparticles on Graphite: Spontaneous Adsorption and Electrochemically Induced Release. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7179-7184	3.8	29
45	Reduction of Azides to Amines with Borohydride Exchange Resin [Nickel Acetate. <i>Synthetic Communications</i> , 1993 , 23, 3047-3053	1.7	29

44	Effect of headgroup on electrical conductivity of self-assembled monolayers on mercury: n-alkanethiols versus n-alkaneselenols. <i>Langmuir</i> , 2010 , 26, 1570-3	4	26
43	Mechanistic interpretation of selective catalytic hydrogenation and isomerization of alkenes and dienes by ligand deactivated Pd nanoparticles. <i>Nanoscale</i> , 2015 , 7, 17786-90	7.7	25
42	Electronic structure of ensembles of gold nanoparticles: Size and proximity effects. <i>Physical Review B</i> , 2005 , 72,	3.3	25
41	Synthesis of Alkanethiolate-Capped Metal Nanoparticles Using Alkyl Thiosulfate Ligand Precursors: A Method to Generate Promising Reagents for Selective Catalysis. <i>Nanomaterials</i> , 2018 , 8,	5.4	24
40	Synthesis of nanoparticle-cored dendrimers by convergent dendritic functionalization of monolayer-protected nanoparticles. <i>Langmuir</i> , 2008 , 24, 6924-31	4	24
39	Organic reactions of monolayer-protected metal nanoparticles. <i>Comptes Rendus Chimie</i> , 2003 , 6, 1009-1018	1.8	24
38	Nanoscale subsurface- and material-specific identification of single nanoparticles. <i>Optics Express</i> , 2011 , 19, 20865-75	3.3	22
37	The relationships between interfacial friction and the conformational order of organic thin films. <i>Tribology Letters</i> , 2001 , 10, 81-87	2.8	22
36	Graphene oxide-promoted reshaping and coarsening of gold nanorods and nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3406-13	9.5	20
35	Direct assembly of photoresponsive C(60)-gold nanoparticle hybrid films. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2699-702	9.5	20
34	Stability, cytotoxicity and cell uptake of water-soluble dendron-conjugated gold nanoparticles with 3, 12 and 17 nm cores. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6071-6080	7.3	19
33	Stability of tetraoctylammonium bromide-protected gold nanoparticles: Effects of anion treatments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 352, 12-17	5.1	19
32	Dendritic functionalization of monolayer-protected gold nanoparticles. <i>Materials Research Bulletin</i> , 2007 , 42, 1178-1185	5.1	19
31	Molecular conformation changes in alkylthiol ligands as a function of size in gold nanoparticles: X-ray absorption studies. <i>Physical Review B</i> , 2006 , 74,	3.3	18
30	Morphological transformation of gold nanoparticles on graphene oxide: effects of capping ligands and surface interactions. <i>Nano Convergence</i> , 2019 , 6, 2	9.2	17
29	Preparation of Partially Poisoned Alkanethiolate-Capped Platinum Nanoparticles for Hydrogenation of Activated Terminal Alkynes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9823-9832	9.5	16
28	Stability and Morphology of Gold Nanoisland Arrays Generated from Layer-by-Layer Assembled Nanoparticle Multilayer Films: Effects of Heating Temperature and Particle Size. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10597-10605	3.8	16
27	Preparation of Ultrathin Thiolate-Covered Bimetallic Systems: From Extended Planar to Nanoparticle Surfaces. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9359-9364	3.8	16

26	Alkanethiolate-capped palladium nanoparticles for selective catalytic hydrogenation of dienes and trienes. <i>Catalysis Science and Technology</i> , 2017 , 7, 4823-4829	5.5	15
25	Dendritic Functionalization of Metal Nanoparticles for Nanoparticle-Cored Dendrimers. <i>Current Nanoscience</i> , 2007 , 3, 245-254	1.4	15
24	Tandem semi-hydrogenation/isomerization of propargyl alcohols to saturated carbonyl analogues by dodecanethiolate-capped palladium nanoparticle catalysts. <i>RSC Advances</i> , 2013 , 3, 13642-13645	3.7	14
23	Mechanistic Insights into the Formation of Dodecanethiolate-Stabilized Magnetic Iridium Nanoparticles: Thiosulfate vs Thiol Ligands. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14548-14554	3.8	12
22	Influence of Graphene Oxide Supports on Solution-Phase Catalysis of Thiolate-Protected Palladium Nanoparticles in Water. <i>New Journal of Chemistry</i> , 2017 , 41, 177-183	3.6	12
21	Unsupported Micellar Palladium Nanoparticles for Biphasic Hydrogenation and Isomerization of Hydrophobic Allylic Alcohols in Water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 513, 367-372	5.1	11
20	A Route to Redox-active Nanoparticle-cored Dendrimers: Post-encapsulation of Ferrocene. <i>Chemistry Letters</i> , 2006 , 35, 644-645	1.7	11
19	Apolipoprotein E3-mediated cellular uptake of reconstituted high-density lipoprotein bearing core 3, 10, or 17 nm hydrophobic gold nanoparticles. <i>International Journal of Nanomedicine</i> , 2017 , 12, 8495-8510	7.3	10
18	Colloidal Palladium Nanoparticles for Selective Hydrogenation of Styrene Derivatives with Reactive Functional Groups. <i>ACS Omega</i> , 2019 , 4, 20819-20828	3.9	10
17	Effects of Noncovalent Interactions on the Catalytic Activity of Unsupported Colloidal Palladium Nanoparticles Stabilized with Thiolate Ligands. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20882-20891	3.8	9
16	Alkanethiolate-Capped Palladium Nanoparticles for Regio- and Stereoselective Hydrogenation of Allenes. <i>Catalysts</i> , 2018 , 8,	4	8
15	Characterization of localized surface plasmon resonance transducers produced from Au(25) nanoparticle multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 402, 146-151	5.1	7
14	Isolated Effects of Surface Ligand Density on the Catalytic Activity and Selectivity of Palladium Nanoparticles. <i>ACS Applied Nano Materials</i> , 2019 , 2, 7188-7196	5.6	6
13	Chemical and heating treatments of ionic monolayer-protected clusters (IMPCs) with different surface counter anions. <i>Journal of Colloid and Interface Science</i> , 2007 , 316, 66-71	9.3	5
12	Ultrasonic, chemical stability and preparation of self-assembled fullerene[C60]-gold nanoparticle films. <i>Ultrasonics</i> , 2006 , 44 Suppl 1, e363-6	3.5	5
11	Preparation of Gold Nanoisland Arrays from Layer-by-Layer Assembled Nanoparticle Multilayer Films. <i>Bulletin of the Korean Chemical Society</i> , 2010 , 31, 291-297	1.2	5
10	A Fast and Efficient UPLC-ESI-MS/MS Method for Detection, Identification, and Quantitative Analysis of Bioactive Substances in Medicinal Herbal Extracts of Preventing Hair Loss. <i>Bulletin of the Korean Chemical Society</i> , 2015 , 36, 2469-2476	1.2	4
9	Electronic interactions between gold nanoclusters in constrained geometries. <i>Physical Review B</i> , 2006 , 73,	3.3	4

8	Water-Soluble Noble Metal Nanoparticle Catalysts Capped with Small Organic Molecules for Organic Transformations in Water. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3294-3318	5.6	4
7	Molecular interactions between pre-formed metal nanoparticles and graphene families. <i>Advances in Nano Research</i> , 2018 , 6, 357-375		3
6	Metal Nanoparticles Protected with Monolayers 2004 ,		2
5	Selective Mono-Hydrogenation of Polyunsaturated Hydrocarbons: Traditional and Nanoscale Catalysis 2019 ,		1
4	Self-Assembled Monolayers Derived from Bidentate Organosulfur Adsorbates. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 576, 183		1
3	Proximity Effects of Methyl Group on Ligand Steric Interactions and Colloidal Stability of Palladium Nanoparticles. <i>Frontiers in Chemistry</i> , 2020 , 8, 599	5	1
2	Nanoparticle-Cored Dendrimers and Hyperbranched Polymers: Synthesis, Properties, and Applications	743-766	
1	Heat-induced coarsening of layer-by-layer assembled mixed Au and Pd nanoparticles. <i>Advances in Nano Research</i> , 2014 , 2, 57-67		