

Younghun Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9508359/publications.pdf>

Version: 2024-02-01

190
papers

6,874
citations

71102

41
h-index

74163

75
g-index

190
all docs

190
docs citations

190
times ranked

10216
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver nanoparticles induce cytotoxicity by a Trojan-horse type mechanism. <i>Toxicology in Vitro</i> , 2010, 24, 872-878.	2.4	645
2	Arsenic Removal Using Mesoporous Alumina Prepared via a Templating Method. <i>Environmental Science & Technology</i> , 2004, 38, 924-931.	10.0	579
3	Repeated-dose toxicity and inflammatory responses in mice by oral administration of silver nanoparticles. <i>Environmental Toxicology and Pharmacology</i> , 2010, 30, 162-168.	4.0	470
4	Functional analyses of nanoparticle toxicity: A comparative study of the effects of TiO ₂ and Ag on tomatoes (<i>Lycopersicon esculentum</i>). <i>Ecotoxicology and Environmental Safety</i> , 2013, 93, 60-67.	6.0	286
5	Synthesis of functionalized porous silicas via templating method as heavy metal ion adsorbents: the introduction of surface hydrophilicity onto the surface of adsorbents. <i>Microporous and Mesoporous Materials</i> , 2001, 50, 77-90.	4.4	274
6	Preparation, characterization and application of Nd ³⁺ -TiO ₂ photocatalyst for the reduction of Cr(VI) under UV light illumination. <i>Applied Catalysis B: Environmental</i> , 2007, 77, 157-165.	20.2	188
7	Functional Analysis of TiO ₂ Nanoparticle Toxicity in Three Plant Species. <i>Biological Trace Element Research</i> , 2013, 155, 93-103.	3.5	128
8	Inflammatory responses may be induced by a single intratracheal instillation of iron nanoparticles in mice. <i>Toxicology</i> , 2010, 275, 65-71.	4.2	124
9	Bacterial cytotoxicity of the silver nanoparticle related to physicochemical metrics and agglomeration properties. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 2154-2160.	4.3	113
10	Colorimetric Detection of Co ²⁺ Ion Using Silver Nanoparticles with Spherical, Plate, and Rod Shapes. <i>Langmuir</i> , 2013, 29, 8978-8982.	3.5	106
11	Cell Stretching Measurement Utilizing Viscoelastic Particle Focusing. <i>Analytical Chemistry</i> , 2012, 84, 10471-10477.	6.5	97
12	Batch adsorptive removal of copper ions in aqueous solutions by ion exchange resins: 1200H and IRN97H. <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 187-194.	2.7	89
13	Magnetic iron oxide nanoparticles induce autophagy preceding apoptosis through mitochondrial damage and ER stress in RAW264.7 cells. <i>Toxicology in Vitro</i> , 2014, 28, 1402-1412.	2.4	89
14	Removal characteristics of engineered nanoparticles by activated sludge. <i>Chemosphere</i> , 2013, 92, 524-528.	8.2	83
15	Preparation of Mesoporous Catalyst Supported on Silica with Finely Dispersed Ni Particles. <i>Catalysis Letters</i> , 2002, 81, 89-96.	2.6	76
16	Characterization of exposure to silver nanoparticles in a manufacturing facility. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1705-1712.	1.9	73
17	Hydrothermal synthesis of CdS sub-microspheres for photocatalytic degradation of pharmaceuticals. <i>Applied Surface Science</i> , 2018, 457, 559-565.	6.1	68
18	Electrochemical determination of guanine and adenine by CdS microspheres modified electrode and evaluation of damage to DNA purine bases by UV radiation. <i>Biosensors and Bioelectronics</i> , 2010, 26, 314-320.	10.1	65

#	ARTICLE	IF	CITATIONS
19	Combined repeated-dose toxicity study of silver nanoparticles with the reproduction/developmental toxicity screening test. <i>Nanotoxicology</i> , 2014, 8, 349-362.	3.0	63
20	Facile microwave-assisted synthesis of SnS ₂ nanoparticles for visible-light responsive photocatalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 269-275.	5.8	63
21	Title is missing!. <i>Catalysis Letters</i> , 2003, 89, 185-192.	2.6	58
22	Serum and ultrastructure responses of common carp (<i>Cyprinus carpio</i> L.) during long-term exposure to zinc oxide nanoparticles. <i>Ecotoxicology and Environmental Safety</i> , 2014, 104, 9-17.	6.0	58
23	Nanostructured cerium-doped ZnO for photocatalytic degradation of pharmaceuticals in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 384, 112065.	3.9	58
24	ERK pathway is activated in bare-FeNPs-induced autophagy. <i>Archives of Toxicology</i> , 2014, 88, 323-336.	4.2	56
25	Label-free localized surface plasmon resonance biosensor composed of multi-functional DNA 3 way junction on hollow Au spike-like nanoparticles (HAuSN) for avian influenza virus detection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110341.	5.0	56
26	Controlled Microwave-Assisted Synthesis of the 2D-BiOCl/2D-g-C ₃ N ₄ Heterostructure for the Degradation of Amine-Based Pharmaceuticals under Solar Light Illumination. <i>ACS Omega</i> , 2019, 4, 4671-4678.	3.5	56
27	Fabrication of electrochemical biosensor composed of multi-functional DNA structure/Au nanospire on micro-gap/PCB system for detecting troponin I in human serum. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 343-350.	5.0	54
28	Magnetite- and maghemite-induced different toxicity in murine alveolar macrophage cells. <i>Archives of Toxicology</i> , 2014, 88, 1607-1618.	4.2	53
29	Facile synthesis of Br-doped g-C ₃ N ₄ nanosheets via one-step exfoliation using ammonium bromide for photodegradation of oxytetracycline antibiotics. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 473-481.	5.8	53
30	Hazard potential of perovskite solar cell technology for potential implementation of "safe-by-design" approach. <i>Scientific Reports</i> , 2019, 9, 4242.	3.3	53
31	Preparation of Functionalized Mesostructured Silica Containing Magnetite (MSM) for the Removal of Copper Ions in Aqueous Solutions and Its Magnetic Separation. <i>Separation Science and Technology</i> , 2003, 38, 2533-2548.	2.5	52
32	Purification of oily seawater/wastewater using superhydrophobic nano-silica coated mesh and sponge. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 40, 47-53.	5.8	50
33	Chronic pulmonary accumulation of iron oxide nanoparticles induced Th1-type immune response stimulating the function of antigen-presenting cells. <i>Environmental Research</i> , 2015, 143, 138-147.	7.5	49
34	A 13-week repeated-dose oral toxicity and bioaccumulation of aluminum oxide nanoparticles in mice. <i>Archives of Toxicology</i> , 2015, 89, 371-379.	4.2	49
35	Synthesis of tailored porous alumina with a bimodal pore size distribution. <i>Materials Research Bulletin</i> , 2004, 39, 2103-2112.	5.2	47
36	Fabrication and Optimization of a Nanoporous Platinum Electrode and a Non-enzymatic Glucose Micro-sensor on Silicon. <i>Sensors</i> , 2008, 8, 6154-6164.	3.8	46

#	ARTICLE	IF	CITATIONS
37	Amperometric sensing of hydrogen peroxide via highly roughened macroporous Gold-/Platinum nanoparticles electrode. <i>Current Applied Physics</i> , 2011, 11, 211-216.	2.4	46
38	Incompatibility of silver nanoparticles with lactate dehydrogenase leakage assay for cellular viability test is attributed to protein binding and reactive oxygen species generation. <i>Toxicology Letters</i> , 2014, 225, 422-432.	0.8	45
39	Enhancement of visible-light-driven photocatalytic reduction of aqueous Cr(VI) with flower-like In ³⁺ -doped SnS ₂ . <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 45, 206-214.	5.8	44
40	A novel method for synthesis of a Ni/Al ₂ O ₃ catalyst with a mesoporous structure using stearic acid salts. <i>Journal of Materials Chemistry</i> , 2003, 13, 2353.	6.7	42
41	In situ observation of biomolecules patterned on a PEG-modified Si surface by scanning probe lithography. <i>Biomaterials</i> , 2006, 27, 4655-4660.	11.4	42
42	Hoop stress-assisted three-dimensional particle focusing under viscoelastic flow. <i>Rheologica Acta</i> , 2014, 53, 927-933.	2.4	42
43	Biodistribution and toxicity of spherical aluminum oxide nanoparticles. <i>Journal of Applied Toxicology</i> , 2016, 36, 424-433.	2.8	42
44	Phase Separation of a Mixed Self-Assembled Monolayer Prepared via a Stepwise Method. <i>Langmuir</i> , 2006, 22, 4885-4889.	3.5	41
45	Rapid, Reversible Preparation of Size-Controllable Silver Nanoplates by Chemical Redox. <i>Langmuir</i> , 2010, 26, 11621-11623.	3.5	39
46	Visible light active CdS@TiO ₂ core-shell nanostructures for the photodegradation of chlorophenols. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 374, 75-83.	3.9	39
47	Hypoxia inducible factor-1 (HIF-1) flavin containing monooxygenase-2 (FMO-2) signaling acts in silver nanoparticles and silver ion toxicity in the nematode, <i>Caenorhabditis elegans</i> . <i>Toxicology and Applied Pharmacology</i> , 2013, 270, 106-113.	2.8	36
48	Repeated-dose toxicity attributed to aluminum nanoparticles following 28-day oral administration, particularly on gene expression in mouse brain. <i>Toxicological and Environmental Chemistry</i> , 2011, 93, 120-133.	1.2	35
49	Effect of sulfidation and dissolved organic matters on toxicity of silver nanoparticles in sediment dwelling organism, <i>Chironomus riparius</i> . <i>Science of the Total Environment</i> , 2016, 553, 565-573.	8.0	35
50	Development of electrochemical biosensor for detection of pathogenic microorganism in Asian dust events. <i>Chemosphere</i> , 2017, 175, 269-274.	8.2	35
51	Shifting of the band edge and investigation of charge carrier pathways in the CdS/g-C ₃ N ₄ heterostructure for enhanced photocatalytic degradation of levofloxacin. <i>New Journal of Chemistry</i> , 2019, 43, 9784-9792.	2.8	34
52	Application of Mg-Mesoporous Alumina Prepared by Using Magnesium Stearate as a Template for the Removal of Nickel: Kinetics, Isotherm, and Error Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2834-2842.	3.7	32
53	Preparation of coral-like porous gold for metal ion detection. <i>Microporous and Mesoporous Materials</i> , 2009, 122, 283-287.	4.4	32
54	Sensitivity of nanoparticles stability at the point of zero charge (PZC). <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3175-3178.	5.8	32

#	ARTICLE	IF	CITATIONS
55	Induction of Inflammatory Responses in Mice Treated with Cerium Oxide Nanoparticles by Intratracheal Instillation. <i>Journal of Health Science</i> , 2010, 56, 387-396.	0.9	31
56	Bacterial uptake of silver nanoparticles in the presence of humic acid and AgNO ₃ . <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 267-271.	2.7	29
57	Synthesis of mesoporous γ -alumina through pre- and post-hydrolysis methods. <i>Korean Journal of Chemical Engineering</i> , 2002, 19, 908-910.	2.7	28
58	Methanol-tolerant PdPt/C alloy catalyst for oxygen electro-reduction reaction. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 770-774.	2.7	28
59	Toxic response of HIPCO single-walled carbon nanotubes in mice and RAW264.7 macrophage cells. <i>Toxicology Letters</i> , 2014, 229, 167-177.	0.8	28
60	A simple hydrothermal route for the preparation of HgS nanoparticles and their photocatalytic activities. <i>RSC Advances</i> , 2014, 4, 15371-15376.	3.6	27
61	Ecotoxicity of bare and coated silver nanoparticles in the aquatic midge, <i>Chironomus riparius</i> . <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 2023-2032.	4.3	27
62	Functionalized magnetic core-shell Fe@SiO ₂ nanoparticles as recoverable colorimetric sensor for Co ²⁺ ion. <i>Chemical Engineering Journal</i> , 2015, 281, 428-433.	12.7	26
63	Template-free preparation of TiO ₂ microspheres for the photocatalytic degradation of organic dyes. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 2283-2289.	2.7	26
64	Colorimetric detection of heavy metal ions using aminosilane. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 393-396.	5.8	25
65	Hydrogen generation using Pt/Ni bimetallic nanoparticles supported on Fe ₃ O ₄ @SiO ₂ @TiO ₂ multi-shell microspheres. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 364-369.	5.8	25
66	Waste coffee-grounds as potential biosorbents for removal of acid dye 44 from aqueous solution. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 903-907.	2.7	24
67	Dispersion stability of citrate- and PVP-AgNPs in biological media for cytotoxicity test. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 671-674.	2.7	24
68	Comparison of the toxicity of aluminum oxide nanorods with different aspect ratio. <i>Archives of Toxicology</i> , 2015, 89, 1771-1782.	4.2	24
69	Au nanoparticle-embedded SiO ₂ @Au@SiO ₂ catalysts with improved catalytic activity, enhanced stability to metal sintering and excellent recyclability. <i>RSC Advances</i> , 2015, 5, 55608-55618.	3.6	24
70	Effect of agglomeration of silver nanoparticle on nanotoxicity depression. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 364-368.	2.7	23
71	Hierarchical-like multipod γ -MnS microcrystals: solvothermal synthesis, characterization and growth mechanism. <i>RSC Advances</i> , 2015, 5, 9618-9620.	3.6	23
72	Superhydrophilic underwater superoleophobic TiO ₂ -coated mesh for separation of oil from oily seawater/wastewater. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 3203-3206.	2.7	23

#	ARTICLE	IF	CITATIONS
73	Electrochemical biosensor with aptamer/porous platinum nanoparticle on round-type micro-gap electrode for saxitoxin detection in fresh water. <i>Biosensors and Bioelectronics</i> , 2022, 210, 114300.	10.1	23
74	A brain-coral-inspired metal-carbon hybrid synthesized using agarose gel for ultra-fast charge and discharge supercapacitor electrodes. <i>Chemical Communications</i> , 2013, 49, 1554.	4.1	22
75	Microwave-assisted synthesis of Au/CdS nanorods for a visible-light responsive photocatalyst. <i>RSC Advances</i> , 2015, 5, 52737-52742.	3.6	22
76	Analysis of gold and silver nanoparticles internalized by zebrafish (<i>Danio rerio</i>) using single particle-inductively coupled plasma-mass spectrometry. <i>Chemosphere</i> , 2018, 209, 815-822.	8.2	22
77	Evaluating the environmental impact of the lead species in perovskite solar cells via environmental-fate modeling. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 70, 453-461.	5.8	22
78	Potential release of nano-carbon black from tire-wear particles through the weathering effect. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 322-329.	5.8	22
79	In situ Negative Patterning of p-Silicon via Scanning Probe Lithography in HF/EtOH Liquid Bridges. <i>Journal of the American Chemical Society</i> , 2005, 127, 9380-9381.	13.7	21
80	Effect of Framework and Textural Porosities of Functionalized Mesoporous Silica on Metal Ion Adsorption Capacities. <i>Separation Science and Technology</i> , 2005, 39, 1427-1442.	2.5	21
81	Effect of the preparation conditions of carbon-supported Pt catalyst on PEMFC performance. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 135-140.	2.9	21
82	JAK/STAT and TGF- β activation as potential adverse outcome pathway of TiO ₂ NPs phototoxicity in <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2017, 7, 17833.	3.3	21
83	A green approach to the microwave-assisted synthesis of flower-like ZnO nanostructures for reduction of Cr(VI). <i>Toxicological and Environmental Chemistry</i> , 2019, 101, 1-12.	1.2	21
84	Biosorptive removal of bare-, citrate-, and PVP-coated silver nanoparticles from aqueous solution by activated sludge. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 51-55.	5.8	20
85	Photothermal Cellulose-Patch with Gold-Spiked Silica Microrods Based on <i>Escherichia coli</i> . <i>ACS Omega</i> , 2018, 3, 5244-5251.	3.5	20
86	Electrochemical degradation of organic dyes with a porous gold electrode. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1855-1859.	2.7	19
87	Ambient fine particulate matters induce cell death and inflammatory response by influencing mitochondria function in human corneal epithelial cells. <i>Environmental Research</i> , 2017, 159, 595-605.	7.5	19
88	Differentiation of carbon black from black carbon using a ternary plot based on elemental analysis. <i>Chemosphere</i> , 2021, 264, 128511.	8.2	19
89	Synthesis of mesoporous alumina by using a cost-effective template. <i>Korean Journal of Chemical Engineering</i> , 2003, 20, 1142-1144.	2.7	18
90	A Single Instillation of Amorphous Silica Nanoparticles Induced Inflammatory Responses and Tissue Damage until Day 28 after Exposure. <i>Journal of Health Science</i> , 2011, 57, 60-71.	0.9	18

#	ARTICLE	IF	CITATIONS
91	Spontaneous reduction of Cr(VI) using InSnS ₂ under dark condition. Chemical Engineering Journal, 2017, 321, 97-104.	12.7	18
92	Photothermal-Mediated Catalytic Reduction of 4-Nitrophenol Using Poly(<i>N</i> -isopropylacrylamide-acrylamide) and Hollow Gold Nanoparticles. ACS Applied Polymer Materials, 2021, 3, 2768-2775.	4.4	18
93	Coprecipitates Synthesis of CaIn ₂ O ₄ and Its Photocatalytic Degradation of Methylene Blue by Visible Light Irradiation. Industrial & Engineering Chemistry Research, 2014, 53, 11720-11726.	3.7	17
94	Fabrication of branched-TiO ₂ microrods on the FTO glass for photocatalytic reduction of Cr(VI) under visible-light irradiation. Journal of Industrial and Engineering Chemistry, 2019, 73, 248-253.	5.8	17
95	Comparison of mesoporous aluminas synthesized using stearic acid and its salts. Korean Journal of Chemical Engineering, 2005, 22, 321-327.	2.7	16
96	Preparation of Pt-Co catalysts on mesoporous carbon and effect of alloying on catalytic activity in oxygen electro-reduction. Korean Journal of Chemical Engineering, 2008, 25, 431-436.	2.7	16
97	Repression of photomediated morphological changes of silver nanoplates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 449-453.	4.7	16
98	Co ₃ O ₄ nanoparticles embedded in ordered mesoporous carbon with enhanced performance as an anode material for Li-ion batteries. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	16
99	Subchronic immunotoxicity and screening of reproductive toxicity and developmental immunotoxicity following single instillation of HIPCO-single-walled carbon nanotubes: purity-based comparison. Nanotoxicology, 2016, 10, 1188-1202.	3.0	16
100	Deleterious effects in reproduction and developmental immunity elicited by pulmonary iron oxide nanoparticles. Environmental Research, 2017, 152, 503-513.	7.5	16
101	Photothermal sterilization cellulose patch with hollow gold nanoparticles. Journal of Industrial and Engineering Chemistry, 2021, 95, 120-125.	5.8	16
102	Enhancement of Topographic Images Obtained in Liquid Media by Atomic Force Microscopy. Journal of Physical Chemistry B, 2006, 110, 20526-20532.	2.6	15
103	Efficiency of protective dermal equipment against silver nanoparticles with water aerosol. Journal of Nanoparticle Research, 2011, 13, 3043-3049.	1.9	15
104	Polypyrrole-coated hollow gold nanoshell exerts anti-obesity effects via photothermal lipolysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 570, 414-419.	4.7	15
105	Fabrication of submicron size electrode via nonetching method for metal ion detection. Applied Physics Letters, 2005, 86, 073113.	3.3	14
106	Distribution and immunotoxicity by intravenous injection of iron nanoparticles in a murine model. Journal of Applied Toxicology, 2016, 36, 414-423.	2.8	14
107	Photothermal properties of wool fabrics colored with SiO ₂ @AuNPs. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 574, 115-121.	4.7	14
108	High-efficiency photothermal sterilization on PDMS film with Au@CuS yolk-shell nanoparticles. Journal of Industrial and Engineering Chemistry, 2022, 113, 522-529.	5.8	14

#	ARTICLE	IF	CITATIONS
109	Sheet-type titania, but not P25, induced paraptosis accompanying apoptosis in murine alveolar macrophage cells. <i>Toxicology Letters</i> , 2014, 230, 69-79.	0.8	13
110	A higher aspect ratio enhanced bioaccumulation and altered immune responses due to intravenously-injected aluminum oxide nanoparticles. <i>Journal of Immunotoxicology</i> , 2016, 13, 439-448.	1.7	13
111	Mesoporous alumina with high capacity for carbon monoxide adsorption. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 587-593.	2.7	13
112	T98G Cell Death Induced by Photothermal Treatment with Hollow Gold Nanoshell-Coupled Silica Microrods Prepared from <i>Escherichia Coli</i> . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8831-8837.	8.0	13
113	Long lifetime g-C ₃ N ₄ photocatalyst coupled with phosphorescent material working under dark condition. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 396, 112520.	3.9	13
114	Comparison of subchronic immunotoxicity of four different types of aluminum-based nanoparticles. <i>Journal of Applied Toxicology</i> , 2018, 38, 575-584.	2.8	12
115	Au-coated Fe ₃ O ₄ @SiO ₂ core-shell particles with photothermal activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 600, 124957.	4.7	12
116	Thermal oxidation etching process of g-C ₃ N ₄ nanosheets from their bulk materials and its photocatalytic activity under solar light irradiation. , 0, 116, 267-276.		12
117	Preparation of nickel-mesoporous materials and their application to the hydrodechlorination of chlorinated organic compounds. <i>Catalysis Surveys From Asia</i> , 2007, 11, 49-58.	2.6	11
118	Feasibility study on the extraction of TiO ₂ nanoparticle exposed in the activated sludge using alkaline digestion. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 41, 62-67.	5.8	11
119	Photothermal reduction of 4-nitrophenol using rod-shaped core-shell structured catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 86, 61-72.	5.8	11
120	Preparation of CuO-CeO ₂ -Al ₂ O ₃ catalyst with mesopore structure for water gas shift reaction. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 32-35.	2.7	10
121	Induction of Inflammatory Responses by Carbon Fullerene (C ₆₀) in Cultured RAW264.7 Cells and in Intraperitoneally Injected Mice. <i>Toxicological Research</i> , 2010, 26, 267-273.	2.1	10
122	In situ detection and removal of metal ion by porous gold electrode. <i>Microporous and Mesoporous Materials</i> , 2012, 147, 1-4.	4.4	10
123	Synthesis of Au/Ag nanoframes from Ag nanoplates by galvanic replacement reaction and its optical properties. <i>Materials Letters</i> , 2015, 145, 154-157.	2.6	10
124	Comparison of distribution and toxicity of different types of zinc-based nanoparticles. <i>Environmental Toxicology</i> , 2017, 32, 1363-1374.	4.0	10
125	Hydrothermal synthesis of SnS ₂ nanocrystals for photocatalytic degradation of 2,4,6-trichlorophenol under white LED light irradiation. , 0, 92, 108-115.		10
126	Dependence of image distortion in a liquid-cell atomic force microscope on fluidic properties. <i>Applied Physics Letters</i> , 2006, 88, 173121.	3.3	9

#	ARTICLE	IF	CITATIONS
127	Single-walled carbon nanotubes disturbed the immune and metabolic regulation function 13-weeks after a single intratracheal instillation. <i>Environmental Research</i> , 2016, 148, 184-195.	7.5	9
128	Disturbance of ion environment and immune regulation following biodistribution of magnetic iron oxide nanoparticles injected intravenously. <i>Toxicology Letters</i> , 2016, 243, 67-77.	0.8	9
129	Tissue distribution following 28 day repeated oral administration of aluminum-based nanoparticles with different properties and the in vitro toxicity. <i>Journal of Applied Toxicology</i> , 2017, 37, 1408-1419.	2.8	9
130	Synthesis of gold-spikes decorated biomimetic silica microrod for photothermal agents. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 58, 33-37.	5.8	9
131	Novel color filters for the correction of red-green color vision deficiency based on the localized surface plasmon resonance effect of Au nanoparticles. <i>Nanotechnology</i> , 2019, 30, 405706.	2.6	9
132	Rapid photocatalytic degradation of acetaminophen and levofloxacin using g-C ₃ N ₄ nanosheets under solar light irradiation. <i>Materials Research Express</i> , 2019, 6, 125538.	1.6	9
133	Quantitative analysis of the concentration of nano-carbon black originating from tire-wear particles in the road dust. <i>Science of the Total Environment</i> , 2022, 842, 156830.	8.0	9
134	An array of Au nanoparticles on the nanopatterned Si(100). <i>Microelectronic Engineering</i> , 2005, 81, 389-393.	2.4	8
135	Multifunctionalization of organosilanes on submicron-sized island-type electrodes for the selective detection of metal ions. <i>Applied Physics Letters</i> , 2006, 88, 013113.	3.3	8
136	Effect of framework or textural nanoporosity on the bulk morphology of mesoporous aluminas. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 679-682.	2.7	8
137	3D CFD analysis of the hydrogen releases and dispersion around storage facilities. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 217-222.	2.7	8
138	Fabrication and Characterization of Macroporous Gold Hybrid Sensing Electrodes With Electroplated Platinum Nanoparticles. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 1298-1305.	2.0	8
139	Fabrication of gold nanowires (GNW) using aluminum anodic oxide (AAO) as a metal-ion sensor. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 299-302.	2.7	8
140	Paper-based synthesis of Pd-dendrite supported porous gold. <i>Materials Letters</i> , 2015, 154, 60-63.	2.6	8
141	Magnetically-Separable and Thermally-Stable Au Nanoparticles Encapsulated in Mesoporous Silica for Catalytic Applications. <i>Topics in Catalysis</i> , 2017, 60, 763-772.	2.8	8
142	Discrete-dipole approximation for the optical properties with morphological changes of silver nanoprism and nanosphere via galvanic reaction. <i>Materials Letters</i> , 2017, 209, 138-141.	2.6	8
143	Estimation of the concentration of nano-carbon black in tire-wear particles using emission factors of PM10, PM2.5, and black carbon. <i>Chemosphere</i> , 2022, 303, 134976.	8.2	8
144	Exposure assessment of engineered nanomaterials in the workplace. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 1630-1636.	2.7	7

#	ARTICLE	IF	CITATIONS
145	Synthesis of paper-based porous gold electrode for electrocatalytic oxidation of ethanol. Journal of Industrial and Engineering Chemistry, 2015, 26, 95-99.	5.8	7
146	Electrochemical sensor applications of Pt supported porous gold electrode prepared using cellulose-filter. Korean Journal of Chemical Engineering, 2016, 33, 344-349.	2.7	7
147	Electrochemical detection of arsenic(III) using porous gold via square wave voltammetry. Korean Journal of Chemical Engineering, 2017, 34, 2096-2098.	2.7	7
148	Shape Measurement of Ellipsoidal Particles in a Cross-Slot Microchannel Utilizing Viscoelastic Particle Focusing. Analytical Chemistry, 2017, 89, 8662-8666.	6.5	7
149	Preparation of nanoporous alumina using aluminum chloride via precipitation templating method for CO adsorbent. Journal of Industrial and Engineering Chemistry, 2018, 67, 132-139.	5.8	7
150	H ₂ generation using Pt nanoparticles encapsulated in Fe ₃ O ₄ @SiO ₂ @TiO ₂ multishell particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 577, 48-52.	4.7	7
151	Synthesis of trans-substituted porphyrin building blocks containing two S-trityl or thiol groups. Korean Journal of Chemical Engineering, 2006, 23, 512-515.	2.7	6
152	Applications of silver nanoplates as colorimetric indicators of pH-induced conformational changes in cytochrome c. Korean Journal of Chemical Engineering, 2009, 26, 258-260.	2.7	6
153	Dependence of approaching velocity on the force-distance curve in AFM analysis. Korean Journal of Chemical Engineering, 2010, 27, 324-327.	2.7	6
154	Bimetallic Au/Ag nanoframes as spectator for Co ²⁺ ion. Journal of Industrial and Engineering Chemistry, 2017, 48, 235-241.	5.8	6
155	Photodegradation of organic dyes via competitive direct reduction/indirect oxidation on InSnS ₂ under visible light. Korean Journal of Chemical Engineering, 2017, 34, 1500-1503.	2.7	6
156	Effect of a roughness factor on electrochemical reduction of 4-nitrophenol using porous gold. Korean Journal of Chemical Engineering, 2017, 34, 2498-2501.	2.7	6
157	Photothermal performance of plasmonic patch with gold nanoparticles embedded on polymer matrix. Korean Journal of Chemical Engineering, 2019, 36, 1746-1751.	2.7	6
158	Development of Colorimetric Whole-Cell Biosensor for Detection of Heavy Metals in Environment for Public Health. International Journal of Environmental Research and Public Health, 2021, 18, 12721.	2.6	6
159	Near-infrared driven photocatalyst (Ag/BiO ₂ -x) with post-illumination catalytic memory. Journal of Physics and Chemistry of Solids, 2022, 167, 110781.	4.0	6
160	Fabrication of submicron-sized copper structures on pre-patterned self-assembled monolayer and Langmuir-Blodgett films. Korean Journal of Chemical Engineering, 2005, 22, 635-638.	2.7	5
161	Fabrication of Organosilane-Modified Electrodes for Metal Ion Detection at the Molecular Level. Langmuir, 2006, 22, 9805-9808.	3.5	5
162	In-situ observation of deposition of gold nanoparticles on the amine-functionalized surface by open liquid-AFM. Korean Journal of Chemical Engineering, 2008, 25, 383-385.	2.7	5

#	ARTICLE	IF	CITATIONS
163	An efficient near-infrared-responsive photocatalyst of flower-like Gd ³⁺ -doped WS ₂ . Korean Journal of Chemical Engineering, 2019, 36, 816-821.	2.7	5
164	Immobilization of visible-light-driven photocatalyst g-C ₃ N ₄ on ceramic fiber for degradation of organic dye. Toxicological and Environmental Chemistry, 2021, 103, 18-36.	1.2	5
165	Fast heating stage for open liquid-cell atomic force microscopy. Review of Scientific Instruments, 2006, 77, 036114.	1.3	4
166	Fabrication of island-type microelectrode via AFM lithography for a highly sensitive Pt-ion detection system. Sensors and Actuators B: Chemical, 2008, 129, 734-740.	7.8	4
167	CO oxidation from syngas (CO and H ₂) using nanoporous Pt/Al ₂ O ₃ catalyst. Korean Journal of Chemical Engineering, 2010, 27, 1458-1461.	2.7	4
168	Fast preparation of citrate-stabilized silver nanoplates and its nanotoxicity. Korean Journal of Chemical Engineering, 2010, 27, 1897-1900.	2.7	4
169	Surface plasmon resonance study of (positive, neutral, negative) vesicles rupture by AgNPs™ attack for screening of cytotoxicity induced by nanoparticles. Korean Journal of Chemical Engineering, 2013, 30, 482-487.	2.7	4
170	Intrinsic toxicity of stable nanosized titanium dioxide using polyacrylate in human keratinocytes. Molecular and Cellular Toxicology, 2018, 14, 273-282.	1.7	4
171	Optical assessment of chiral/achiral polymer blends based on surface plasmon resonance effects of gold nanoparticles. Journal Physics D: Applied Physics, 2020, 53, 095102.	2.8	4
172	Fabrication methods of dry adhesive with various shaped microsuction cups. Korean Journal of Chemical Engineering, 2020, 37, 563-570.	2.7	4
173	Hollow Au nanoparticles-decorated silica as near infrared-activated heat generating nano pigment. Journal of Industrial and Engineering Chemistry, 2022, 107, 376-382.	5.8	4
174	Regeneration of aged-AgNPs via density gradient ultracentrifugal nanoseparation. Journal of Industrial and Engineering Chemistry, 2014, 20, 3157-3162.	5.8	3
175	Nano-sized iron particles may induce multiple pathways of cell death following generation of mistranscribed RNA in human corneal epithelial cells. Toxicology in Vitro, 2017, 42, 348-357.	2.4	3
176	Feasibility study on the differentiation between engineered and natural nanoparticles based on the elemental ratios. Korean Journal of Chemical Engineering, 2017, 34, 3208-3213.	2.7	3
177	Propectives of Environmental Colorimetric-Sensors. Korean Chemical Engineering Research, 2011, 49, 393-399.	0.2	3
178	Effect of laser beam focusing point on AFM measurements. Korean Journal of Chemical Engineering, 2009, 26, 496-499.	2.7	2
179	Spectroscopic and microscopic studies of vesicle rupture by AgNPs attack to screen the cytotoxicity of nanomaterials. Journal of Industrial and Engineering Chemistry, 2013, 19, 1944-1948.	5.8	2
180	Colorimetric detection of vesicle rupture by attack of Ag nanoparticles. Korean Journal of Chemical Engineering, 2013, 30, 235-237.	2.7	2

#	ARTICLE	IF	CITATIONS
181	Photo-corrosion inhibition of Ag ₃ PO ₄ by polyaniline coating. Desalination and Water Treatment, 2016, 57, 13394-13403.	1.0	2
182	10.2478/s11814-009-0238-z. , 2011, 26, 1630.		2
183	POROUS ALUMINA WITH BIMODAL PORE SIZE DISTRIBUTION AS AN ORGANIC ADSORBENT. , 2003, , .		1
184	Physicochemical properties between pristine and aged AgNPs for the evaluation of nanotoxicity. Korean Journal of Chemical Engineering, 2013, 30, 1321-1325.	2.7	1
185	Facile fabrication of superamphiphobic glass coated with fluorinated-silica nanoparticles. Materials Letters, 2018, 229, 213-216.	2.6	1
186	Electronic Punch on the Thiolated-Au Films by Atomic Force Microscopy. Journal of Nanoscience and Nanotechnology, 2008, 8, 5090-5093.	0.9	0
187	Formation of abnormally large-sized tubular amyloid β aggregates on a nanostructured gold surface. Korean Journal of Chemical Engineering, 2011, 28, 184-188.	2.7	0
188	Effect of ionic-strength adjusters on the detection of silver ion using ion-selective electrode. Korean Journal of Chemical Engineering, 2015, 32, 1924-1927.	2.7	0
189	10.2478/s11814-009-0314-4. , 2011, 27, 324.		0
190	Assessment of Removal of Silver Nanoparticle in Sewage Treatment Plant Waste Using Process Simulation. Clean Technology, 2014, 20, 160-165.	0.1	0