

Tae Hyun Yoon

List of Publications by Year in descending order

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62
papers

2,243
citations

236612

25
h-index

223531

46
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64
all docs

64
docs citations

64
times ranked

3762
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Oxide Thin Films for Flexible Nonvolatile Memory Applications. <i>Nano Letters</i> , 2010, 10, 4381-4386.	4.5	554
2	Adsorption of organic matter at mineral/water interfaces: I. ATR-FTIR spectroscopic and quantum chemical study of oxalate adsorbed at boehmite/water and corundum/water interfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4505-4518.	1.6	120
3	Nanoscale environments associated with bioweathering of a Mg-Fe-pyroxene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 979-982.	3.3	83
4	Adsorption of Organic Matter at Mineral/Water Interfaces: 3. Implications of Surface Dissolution for Adsorption of Oxalate. <i>Langmuir</i> , 2004, 20, 11480-11492.	1.6	75
5	Adsorption of Organic Matter at Mineral/Water Interfaces. IV. Adsorption of Humic Substances at Boehmite/Water Interfaces and Impact on Boehmite Dissolution. <i>Langmuir</i> , 2005, 21, 5002-5012.	1.6	74
6	NanoSolveIT Project: Driving nanoinformatics research to develop innovative and integrated tools for in silico nanosafety assessment. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 583-602.	1.9	74
7	Adsorption of Organic Matter at Mineral/Water Interfaces. 2. Outer-Sphere Adsorption of Maleate and Implications for Dissolution Processes. <i>Langmuir</i> , 2004, 20, 4996-5006.	1.6	73
8	Phototoxicity of CdSe/ZnSe quantum dots with surface coatings of 3-mercaptopropionic acid or tri-n-octylphosphine oxide/gum arabic in <i>Daphnia magna</i> under environmentally relevant UV-B light. <i>Aquatic Toxicology</i> , 2010, 97, 116-124.	1.9	69
9	A new perspective on <i>in vitro</i> assessment method for evaluating quantum dot toxicity by using microfluidics technology. <i>Biomicrofluidics</i> , 2010, 4, .	1.2	64
10	Assessment of cytocompatibility of surface-modified CdSe/ZnSe quantum dots for BALB/3T3 fibroblast cells. <i>Toxicology in Vitro</i> , 2010, 24, 1070-1077.	1.1	58
11	Flow Cytometry-Based Quantification of Cellular Au Nanoparticles. <i>Analytical Chemistry</i> , 2017, 89, 2449-2456.	3.2	58
12	Towards a generalized toxicity prediction model for oxide nanomaterials using integrated data from different sources. <i>Scientific Reports</i> , 2018, 8, 6110.	1.6	56
13	Adsorption of Organic Matter at Mineral/Water Interfaces: 7. ATR-FTIR and Quantum Chemical Study of Lactate Interactions with Hematite Nanoparticles. <i>Langmuir</i> , 2008, 24, 6683-6692.	1.6	55
14	Acute toxicity of two CdSe/ZnSe quantum dots with different surface coating in <i>Daphnia magna</i> under various light conditions. <i>Environmental Toxicology</i> , 2010, 25, 593-600.	2.1	50
15	Adsorption of Suwannee River Fulvic Acid on Aluminum Oxyhydroxide Surfaces: An In Situ ATR-FTIR Study. <i>Langmuir</i> , 2004, 20, 5655-5658.	1.6	43
16	Toxicity Classification of Oxide Nanomaterials: Effects of Data Gap Filling and PChem Score-based Screening Approaches. <i>Scientific Reports</i> , 2018, 8, 3141.	1.6	43
17	In Situ Characterization of Aluminum-Containing Mineral~Microorganism Aqueous Suspensions Using Scanning Transmission X-ray Microscopy. <i>Langmuir</i> , 2004, 20, 10361-10366.	1.6	42
18	Adsorption of Organic Matter at Mineral/Water Interfaces: 5. Effects of Adsorbed Natural Organic Matter Analogues on Mineral Dissolution. <i>Langmuir</i> , 2005, 21, 2811-2821.	1.6	41

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19	Nanometer-Scale Chemical Heterogeneities of Black Carbon Materials and Their Impacts on PCB Sorption Properties: A Soft X-ray Spectromicroscopy Study. <i>Environmental Science & Technology</i> , 2006, 40, 5923-5929.	4.6	39
20	Nanocrystalline CdS-water-soluble conjugated-polymers: High performance photoelectrochemical cells. <i>Applied Physics Letters</i> , 2007, 90, 263503.	1.5	38
21	Predicting Cytotoxicity of Metal Oxide Nanoparticles Using Isalos Analytics Platform. <i>Nanomaterials</i> , 2020, 10, 2017.	1.9	34
22	Size and shape distributions of carbon black aggregates by transmission electron microscopy. <i>Carbon</i> , 2018, 130, 822-833.	5.4	30
23	Curation of datasets, assessment of their quality and completeness, and nanoSAR classification model development for metallic nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 1902-1910.	2.2	30
24	Bipolar resistive switching characteristics of poly(3,4-ethylene-dioxythiophene): Poly(styrenesulfonate) thin film. <i>Current Applied Physics</i> , 2010, 10, e46-e49.	1.1	29
25	Mass Cytometry and Single-Cell RNA-seq Profiling of the Heterogeneity in Human Peripheral Blood Mononuclear Cells Interacting with Silver Nanoparticles. <i>Small</i> , 2020, 16, 1907674.	5.2	29
26	Applications of Soft X-ray Spectromicroscopy in Material and Environmental Sciences. <i>Applied Spectroscopy Reviews</i> , 2009, 44, 91-122.	3.4	24
27	Multicompartmented microfluidic device for characterization of dose-dependent cadmium cytotoxicity in BALB/3T3 fibroblast cells. <i>Biomedical Microdevices</i> , 2009, 11, 401-411.	1.4	23
28	L-Cysteine-induced photoluminescence enhancement of CdSe/ZnSe quantum dots in aqueous solution. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 472-477.	2.5	23
29	X-ray and electron microscopy studies on the biodistribution and biomodification of iron oxide nanoparticles in <i>Daphnia magna</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 384-389.	2.5	23
30	Determination of silver nanoparticle species released from textiles into artificial sweat and laundry wash for a risk assessment. <i>Human and Ecological Risk Assessment (HERA)</i> , 2017, 23, 741-750.	1.7	20
31	Morphology-based assessment of Cd ²⁺ cytotoxicity using microfluidic image cytometry (iFIC). <i>Lab on A Chip</i> , 2010, 10, 415.	3.1	19
32	Effects of agglomeration on <i>in vitro</i> dosimetry and cellular association of silver nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 446-455.	2.2	18
33	High throughput cell cycle analysis using microfluidic image cytometry (iFIC). <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013, 83A, 356-362.	1.1	17
34	Semi-quantitative estimation of cellular SiO ₂ nanoparticles using flow cytometry combined with X-ray fluorescence measurements. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2014, 85, 771-780.	1.1	17
35	Trace Metal Ion Partitioning at Polymer Film/Metal Oxide Interfaces: A Long-Period X-ray Standing Wave Study. <i>Langmuir</i> , 2005, 21, 4503-4511.	1.6	16
36	Enhanced separation of colloidal particles in an AsPFF device with a tilted sidewall and vertical focusing channels (t-AsPFF-v). <i>Lab on A Chip</i> , 2013, 13, 773.	3.1	15

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37	Photocatalytic oxidation activities of TiO ₂ nanorod arrays: A surface spectroscopic analysis. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 480-486.	10.8	15
38	Multiparametric assessment of Cd ²⁺ cytotoxicity using MTT-based microfluidic image cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2012, 81A, 691-697.	1.1	14
39	Scanning transmission X-ray microscopy probe for in situ mechanism study of graphene-oxide-based resistive random access memory. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 170-176.	1.0	13
40	Dispersion, fractionation and characterization of sub-100nm P25 TiO ₂ nanoparticles in aqueous media. <i>Toxicology and Environmental Health Sciences</i> , 2010, 2, 78-85.	1.1	11
41	Flow Cytometric Assessment of Reactive Oxygen Species Generations That are Directly Related to Cellular ZnO Nanoparticle Uptake. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5395-5401.	0.9	11
42	The Effects of Sedimentation and Dissolution on the Cytotoxicity of Ag Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7264-7270.	0.9	10
43	Nanoscale characterization of local structures and defects in photonic crystals using synchrotron-based transmission soft X-ray microscopy. <i>Scientific Reports</i> , 2016, 6, 24488.	1.6	10
44	Critical role of top interface layer on the bipolar resistive switching of Al/PEDOT:PSS/Al memory device. <i>Current Applied Physics</i> , 2011, 11, e35-e39.	1.1	9
45	Structural colour of unary and binary colloidal crystals probed by scanning transmission X-ray microscopy and optical microscopy. <i>Scientific Reports</i> , 2017, 7, 12424.	1.6	9
46	Heterogeneity in Biodistribution and Cytotoxicity of Silver Nanoparticles in Pulmonary Adenocarcinoma Human Cells. <i>Nanomaterials</i> , 2020, 10, 36.	1.9	8
47	Mass cytometric study on the heterogeneity in cellular association and cytotoxicity of silver nanoparticles in primary human immune cells. <i>Environmental Science: Nano</i> , 2020, 7, 1102-1114.	2.2	7
48	Microfluidic Image Cytometry (iFIC) Assessments of Silver Nanoparticle Cytotoxicity. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 4023-4027.	1.0	7
49	An Image Cytometric MTT Assay as an Alternative Assessment Method of Nanoparticle Cytotoxicity. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 1933-1938.	1.0	6
50	In vivo biodegradation of colloidal quantum dots by a freshwater invertebrate, <i>Daphnia magna</i> . <i>Aquatic Toxicology</i> , 2012, 114-115, 217-222.	1.9	5
51	Synchrotron-based Transmission X-ray Microscopy (TXM) Observations of Fully Hydrated Blood Platelets and Their Activation Process. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 2625-2629.	1.0	5
52	Potential risks of the natural nanoparticles from the acid mine drainage and a novel approach for their toxicity assessment. <i>Toxicology and Environmental Health Sciences</i> , 2010, 2, 215-220.	1.1	4
53	Effects of surface-modifying ligands on the colloidal stability of ZnO nanoparticle dispersions in in vitro cytotoxicity test media. <i>International Journal of Nanomedicine</i> , 2014, 9 Suppl 2, 57.	3.3	4
54	Impact of agglomeration on the bioaccumulation of sub-100nm sized TiO ₂ . <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 277-283.	2.5	4

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55	Quantitative Estimation of Cell-Associated Silver Nanoparticles using the Normalized Side Scattering Intensities of Flow Cytometry. <i>Nanomaterials</i> , 2021, 11, 3079.	1.9	4
56	An optimized dispersion of manufactured nanomaterials for in vitro cytotoxicity assays. <i>Toxicology and Environmental Health Sciences</i> , 2010, 2, 207-213.	1.1	3
57	Toxicity modelling of nanomaterials by origin evaluation of their physicochemical descriptors using a combination of principal component analysis and support vector machine methods. <i>Expert Systems</i> , 2020, 37, e12492.	2.9	3
58	Real-time Monitoring of Colloidal Nanoparticles using Light Sheet Dark-field Microscopy Combined with Microfluidic Concentration Gradient Generator (1/4FCGG-LSDFM). <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 365-370.	1.0	2
59	Identification of Ca-rich dense granules in human platelets using scanning transmission X-ray microscopy. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 720-724.	1.0	2
60	L-cysteine adsorption on thiol-coated quantum dot (QD) in aqueous solution: An implication on the QD speciation in biological media. <i>Toxicology and Environmental Health Sciences</i> , 2009, 1, 151-158.	1.1	1
61	Preparation and characterization of stable nano-Ag dispersions for nanotoxicological studies. , 2010, , .		0
62	Scanning transmission X-ray microscopy study of subcellular granules in human platelets at the carbon K- and calcium L _{2,3} -edges. <i>Platelets</i> , 2021, , 1-8.	1.1	0