

Jae-Min Oh

List of Publications by Year in descending order

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117
papers

4,939
citations

109321

35
h-index

98798

67
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121
all docs

121
docs citations

121
times ranked

4872
citing authors

#	ARTICLE	IF	CITATIONS
1	Clay minerals and layered double hydroxides for novel biological applications. <i>Applied Clay Science</i> , 2007, 36, 122-132.	5.2	558
2	Layered double hydroxide as an efficient drug reservoir for folate derivatives. <i>Biomaterials</i> , 2004, 25, 3059-3064.	11.4	401
3	The effect of synthetic conditions on tailoring the size of hydrotalcite particles. <i>Solid State Ionics</i> , 2002, 151, 285-291.	2.7	267
4	Cellular Uptake Mechanism of an Inorganic Nanovehicle and Its Drug Conjugates: Enhanced Efficacy Due To Clathrin-Mediated Endocytosis. <i>Bioconjugate Chemistry</i> , 2006, 17, 1411-1417.	3.6	224
5	Controlled release of donepezil intercalated in smectite clays. <i>International Journal of Pharmaceutics</i> , 2008, 359, 198-204.	5.2	202
6	Layered nanomaterials for green materials. <i>Journal of Materials Chemistry</i> , 2009, 19, 2553.	6.7	198
7	Inorganic Drug Delivery Nanovehicle Conjugated with Cancer-Specific Ligand. <i>Advanced Functional Materials</i> , 2009, 19, 1617-1624.	14.9	184
8	Inorganic Metal Hydroxide Nanoparticles for Targeted Cellular Uptake Through Clathrin-Mediated Endocytosis. <i>Chemistry - an Asian Journal</i> , 2009, 4, 67-73.	3.3	174
9	Efficient delivery of anticancer drug MTX through MTX-LDH nanohybrid system. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1024-1027.	4.0	155
10	Layered double hydroxide as novel antibacterial drug delivery system. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 685-688.	4.0	102
11	Human-related application and nanotoxicology of inorganic particles: complementary aspects. <i>Journal of Materials Chemistry</i> , 2008, 18, 615-620.	6.7	101
12	Anticancer drug encapsulated in inorganic lattice can overcome drug resistance. <i>Journal of Materials Chemistry</i> , 2010, 20, 9463.	6.7	93
13	Anticancer drug-layered hydroxide nanohybrids as potent cancer chemotherapy agents. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1528-1532.	4.0	91
14	Biocompatible Nanoparticles Intercalated with Anticancer Drug for Target Delivery: Pharmacokinetic and Biodistribution Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2913-2916.	0.9	78
15	Electrophoretically prepared hybrid materials for biopolymer hydrogel and layered ceramic nanoparticles. <i>Biomaterials Research</i> , 2016, 20, 1.	6.9	76
16	Emerging nanomaterials with advanced drug delivery functions; focused on methotrexate delivery. <i>Coordination Chemistry Reviews</i> , 2018, 359, 32-51.	18.8	75
17	Intracrystalline structure of DNA molecules stabilized in the layered double hydroxide. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1028-1031.	4.0	73
18	Safety Aspect of Inorganic Layered Nanoparticles: Size-Dependency <i>In Vitro</i> and <i>In Vivo</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5297-5301.	0.9	73

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19	Biokinetics of food additive silica nanoparticles and their interactions with food components. Colloids and Surfaces B: Biointerfaces, 2017, 150, 384-392.	5.0	71
20	LDH Nanocontainers as Bio-Reservoirs and Drug Delivery Carriers. Recent Patents on Nanotechnology, 2012, 6, 200-217.	1.3	68
21	Immunotoxicity of titanium dioxide nanoparticles via simultaneous induction of apoptosis and multiple toll-like receptors signaling through ROS-dependent SAPK/JNK and p38 MAPK activation. International Journal of Nanomedicine, 2018, Volume 13, 6735-6750.	6.7	57
22	Surface treatment of silica nanoparticles for stable and charge-controlled colloidal silica. International Journal of Nanomedicine, 2014, 9 Suppl 2, 29.	6.7	54
23	Synthesis of hydrotalcite type layered double hydroxide with various Mg/Al ratio and surface charge under controlled reaction condition. Applied Clay Science, 2016, 134, 44-49.	5.2	54
24	Integrated bio-inorganic hybrid systems for nano-forensics. Chemical Society Reviews, 2011, 40, 583-595.	38.1	52
25	Anticancer Drug-Inorganic Nanohybrid and Its Cellular Interaction. Journal of Nanoscience and Nanotechnology, 2007, 7, 3700-3705.	0.9	50
26	A nanostructured Ni/graphene hybrid for enhanced electrochemical hydrogen storage. Journal of Alloys and Compounds, 2014, 610, 231-235.	5.5	47
27	Lack of genotoxic potential of ZnO nanoparticles in in vitro and in vivo tests. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2014, 761, 1-9.	1.7	47
28	Intracellular Drug Delivery of Layered Double Hydroxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2011, 11, 1632-1635.	0.9	44
29	Synthesis of a mesoporous Mg-Al mixed metal oxide with P123 template for effective removal of Congo red via aggregation-driven adsorption. Journal of Solid State Chemistry, 2021, 293, 121758.	2.9	42
30	Effect of particle size and local disorder on specific surface area of layered double hydroxides upon calcination-reconstruction. Journal of Solid State Chemistry, 2018, 263, 60-64.	2.9	41
31	Biocompatible ceramic nanocarrier for drug delivery with high efficiency. Journal of the Ceramic Society of Japan, 2009, 117, 543-549.	1.1	40
32	Cytotoxicity, Uptake Behaviors, and Oral Absorption of Food Grade Calcium Carbonate Nanomaterials. Nanomaterials, 2015, 5, 1938-1954.	4.1	38
33	Cellular Toxicity of Inorganic Hydroxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2007, 7, 4017-4020.	0.9	36
34	Colloidal behaviors of ZnO nanoparticles in various aqueous media. Toxicology and Environmental Health Sciences, 2012, 4, 121-131.	2.1	36
35	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. Biomaterials, 2017, 149, 12-28.	11.4	36
36	Encapsulation of Flavor Molecules, 4-Hydroxy-3-Methoxy Benzoic Acid, into Layered Inorganic Nanoparticles for Controlled Release of Flavor. Journal of Nanoscience and Nanotechnology, 2008, 8, 5018-5021.	0.9	34

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37	Isomorphous substitution of divalent metal ions in layered double hydroxides through a soft chemical hydrothermal reaction. Dalton Transactions, 2014, 43, 10430.	3.3	33
38	The fate of calcium carbonate nanoparticles administered by oral route: absorption and their interaction with biological matrices. International Journal of Nanomedicine, 2015, 10, 2273.	6.7	33
39	Titanium Dioxide Nanoparticle-Biomolecule Interactions Influence Oral Absorption. Nanomaterials, 2016, 6, 225.	4.1	33
40	Anticancer Drug-Incorporated Layered Double Hydroxide Nanohybrids and Their Enhanced Anticancer Therapeutic Efficacy in Combination Cancer Treatment. BioMed Research International, 2014, 2014, 1-11.	1.9	31
41	Intracrystalline structure and release pattern of ferulic acid intercalated into layered double hydroxide through various synthesis routes. Applied Clay Science, 2015, 112-113, 32-39.	5.2	31
42	Physicochemical properties of surface charge-modified ZnO nanoparticles with different particle sizes. International Journal of Nanomedicine, 2014, 9 Suppl 2, 41.	6.7	30
43	Drug-Ceramic 2D Nanoassemblies for Drug Delivery System in Physiological Condition. Journal of the American Ceramic Society, 2012, 95, 2758-2765.	3.8	29
44	In Vivo Anticancer Activity of Methotrexate-loaded Layered Double Hydroxide Nanoparticles. Current Pharmaceutical Design, 2013, 19, 7196-7202.	1.9	27
45	Polymer Coated CaAl-Layered Double Hydroxide Nanomaterials for Potential Calcium Supplement. International Journal of Molecular Sciences, 2014, 15, 22563-22579.	4.1	25
46	Size- and surface charge-controlled layered double hydroxides for efficient algal flocculation. Environmental Science: Nano, 2018, 5, 183-190.	4.3	24
47	Gadolinium (III) Diethylenetriamine Pentaacetic Acid/Layered Double Hydroxide Nanohybrid as Novel T ₁ -Magnetic Resonant Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 5181-5184.	0.9	23
48	Radioisotope Co-57 incorporated layered double hydroxide nanoparticles as a cancer imaging agent. RSC Advances, 2016, 6, 48415-48419.	3.6	23
49	Layered Double Hydroxide Nanomaterials Encapsulating Angelica gigas Nakai Extract for Potential Anticancer Nanomedicine. Frontiers in Pharmacology, 2018, 9, 723.	3.5	22
50	Mixed Metal Oxide by Calcination of Layered Double Hydroxide: Parameters Affecting Specific Surface Area. Nanomaterials, 2021, 11, 1153.	4.1	21
51	Surface functionalization-specific binding of coagulation factors by zinc oxide nanoparticles delays coagulation time and reduces thrombin generation potential in vitro. PLoS ONE, 2017, 12, e0181634.	2.5	20
52	Layered Metal Hydroxides Containing Calcium and Their Structural Analysis. Bulletin of the Korean Chemical Society, 2012, 33, 1845-1850.	1.9	20
53	Nanohybrids of edible dyes intercalated in ZnAl layered double hydroxides. Journal of Physics and Chemistry of Solids, 2008, 69, 1547-1551.	4.0	19
54	Anticancer Activity of Ferulic Acid-Inorganic Nanohybrids Synthesized via Two Different Hybridization Routes, Reconstruction and Exfoliation-Reassembly. Scientific World Journal, The, 2013, 2013, 1-9.	2.1	19

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55	Radioisotope and anticancer agent incorporated layered double hydroxide for tumor targeting theranostic nanomedicine. <i>Applied Clay Science</i> , 2020, 186, 105454.	5.2	18
56	Systematic utilization of layered double hydroxide nanosheets for effective removal of methyl orange from an aqueous system by π - π stacking-induced nanoconfinement. <i>Journal of Environmental Management</i> , 2021, 277, 111455.	7.8	18
57	Boosting the anticancer activity of doxorubicin with a layered double hydroxide nanocarrier. <i>Applied Clay Science</i> , 2021, 203, 106000.	5.2	18
58	Dual nutraceutical nanohybrids of folic acid and calcium containing layered double hydroxides. <i>Journal of Solid State Chemistry</i> , 2016, 233, 125-132.	2.9	17
59	A novel synthesis of an $\text{Fe}^{3+}/\text{Fe}^{2+}$ layered double hydroxide (â€˜green rustâ€™) via controlled electron transfer with a conducting polymer. <i>Dalton Transactions</i> , 2017, 46, 7656-7659.	3.3	17
60	Stable fluorescence conjugation of ZnO nanoparticles and their size dependent cellular uptake. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 870-877.	5.0	16
61	Incorporation of Glycine max Merrill Extract into Layered Double Hydroxide through Ion-Exchange and Reconstruction. <i>Nanomaterials</i> , 2019, 9, 1262.	4.1	16
62	Electrophoretic Preparation of an Organicâ€“Inorganic Hybrid of Layered Metal Hydroxide and Hydrogel for a Potential Drugâ€“Delivery System. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5269-5275.	2.0	15
63	Controlled Growth of Silver Oxide Nanoparticles on the Surface of Citrate Anion Intercalated Layered Double Hydroxide. <i>Nanomaterials</i> , 2021, 11, 455.	4.1	15
64	Nano-Bio Interaction between Graphite Oxide Nanoparticles and Human Blood Components. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5343-5349.	2.0	14
65	Physico-chemical changes of ZnO nanoparticles with different size and surface chemistry under physiological pH conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 127, 137-142.	5.0	14
66	Zn-Fe mixed metal oxides from metal hydroxide precursor: Effect of calcination temperature on phase evolution, porosity, and catalytic acidity. <i>Journal of Solid State Chemistry</i> , 2019, 269, 454-458.	2.9	14
67	Cytotoxicity, Intestinal Transport, and Bioavailability of Dispersible Iron and Zinc Supplements. <i>Frontiers in Microbiology</i> , 2017, 8, 749.	3.5	13
68	Particle size effect of layered double hydroxide on the porosity of calcined metal oxide. <i>Applied Clay Science</i> , 2020, 195, 105701.	5.2	13
69	Hybridization Between Natural Extract of <i>Angelica gigas</i> Nakai and Inorganic Nanomaterial of Layered Double Hydroxide via Reconstruction Reaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 1138-1145.	0.9	12
70	Phase Transformation from Brucite to Highly Crystalline Layered Double Hydroxide through a Combined Dissolutionâ€“Reprecipitation and Substitution Mechanism. <i>Crystal Growth and Design</i> , 2018, 18, 5398-5405.	3.0	12
71	Selective DNA Adsorption on Layered Double Hydroxide Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 2217-2221.	1.9	12
72	Nano-biohybrids of engineered nanoclays and natural extract for antibacterial agents. <i>Applied Clay Science</i> , 2016, 134, 19-25.	5.2	11

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73	Hierarchical nanostructure of RuO ₂ hollow spheres with enhanced lithium ion storage and cyclic performance. <i>Journal of Alloys and Compounds</i> , 2017, 711, 611-616.	5.5	11
74	Zingiber officinale Extract (ZOE) Incorporated with Layered Double Hydroxide Hybrid through Reconstruction to Preserve Antioxidant Activity of ZOE against Ultrasound and Microwave Irradiation. <i>Nanomaterials</i> , 2019, 9, 1281.	4.1	11
75	Nanocomposites of Magnetite and Layered Double Hydroxide for Recyclable Chromate Removal. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-10.	2.7	10
76	Inorganic-Polymer Core-Shell with Gadolinium Complex for Switching on/off CT/MRI Dual Detection System of Cancer Cells upon pH Change. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 28-36.	5.8	10
77	Topology dependent modification of layered double hydroxide for therapeutic and diagnostic platform. <i>Advanced Drug Delivery Reviews</i> , 2022, 188, 114459.	13.7	10
78	Facile Synthetic Route To Prepare Ultrathin Silver Nanosheets by Reducing Silver Thiolates in Interlayer Surface of Layered Double Hydroxides. <i>Inorganic Chemistry</i> , 2020, 59, 2163-2170.	4.0	9
79	Physicochemical Properties and Hematocompatibility of Layered Double Hydroxide-Based Anticancer Drug Methotrexate Delivery System. <i>Pharmaceutics</i> , 2020, 12, 1210.	4.5	9
80	Finely crafted quasi-core-shell gadolinium/layered double hydroxide hybrids for switching on/off bimodal CT/MRI contrasting nanodiagnostic platforms. <i>RSC Advances</i> , 2020, 10, 5838-5844.	3.6	9
81	Advances in the Synthesis and Application of Anti-Fouling Membranes Using Two-Dimensional Nanomaterials. <i>Membranes</i> , 2021, 11, 605.	3.0	9
82	Interlayer Structure of Bioactive Molecule, 2-Aminoethanesulfonate, Intercalated into Calcium-Containing Layered Double Hydroxides. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-7.	2.7	8
83	Composites of Quasi-Colloidal Layered Double Hydroxide Nanoparticles and Agarose Hydrogels for Chromate Removal. <i>Nanomaterials</i> , 2016, 6, 25.	4.1	8
84	Physico-Chemical Interaction between Clay Minerals and Albumin Protein according to the Type of Clay. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 396.	2.0	8
85	Hierarchical Ag Nanostructures Fabricated from Silver Coordination Polymers for Antibacterial Surface. <i>Polymers</i> , 2019, 11, 155.	4.5	8
86	Surface roughness effect on the cellular uptake of layered double hydroxide nanoparticles. <i>Applied Clay Science</i> , 2021, 202, 105992.	5.2	8
87	Hematocompatibility and Interaction of Layered Double Hydroxide Nanomaterials with Plasma Proteins. <i>Science of Advanced Materials</i> , 2014, 6, 1582-1589.	0.7	8
88	Physicochemical analysis methods for nanomaterials considering their toxicological evaluations. <i>Molecular and Cellular Toxicology</i> , 2014, 10, 347-360.	1.7	7
89	Size and surface charge effect of layered double hydroxide particles upon blood cells. <i>Applied Clay Science</i> , 2022, 225, 106549.	5.2	7
90	Organization of research team for nano-associated safety assessment in effort to study nanotoxicology of zinc oxide and silica nanoparticles. <i>International Journal of Nanomedicine</i> , 2014, 9 Suppl 2, 3.	6.7	6

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91	Synthesis of Ni/Graphene Nanosheets via Electron Beam Irradiation and Their Enhanced Electrochemical Hydrogen Storage Properties. Bulletin of the Korean Chemical Society, 2015, 36, 2627-2631.	1.9	6
92	Random array of inorganic nanoparticles on polymer surface for anti-biofouling property through cost-effective and high-performance dip-coating. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110788.	5.0	6
93	Porous Hybrids Structure between Silver Nanoparticle and Layered Double Hydroxide for Surface-Enhanced Raman Spectroscopy. Nanomaterials, 2021, 11, 447.	4.1	5
94	Development of Mesopore Structure of Mixed Metal Oxide through Albumin-Templated Coprecipitation and Reconstruction of Layered Double Hydroxide. Nanomaterials, 2021, 11, 620.	4.1	5
95	Substrate templated synthesis of single-phase and uniform Zr-porphyrin-based metal-organic frameworks. Inorganic Chemistry Frontiers, 2020, 7, 221-231.	6.0	5
96	Synthesis and Structural Analysis of Ternary Ca-Al-Fe Layered Double Hydroxides with Different Iron Contents. Crystals, 2021, 11, 1296.	2.2	5
97	Layered Nanomaterials for Environmental Remediation Applications. Energy and Environment Focus, 2014, 3, 23-36.	0.3	4
98	Investigation of membrane condensation induced by CaCO ₃ nanoparticles and its effect on membrane protein function. RSC Advances, 2017, 7, 49858-49862.	3.6	4
99	Silver nanoplate-pillared mesoporous nano-clays for surface enhanced raman scattering. Journal of Industrial and Engineering Chemistry, 2020, 89, 250-256.	5.8	4
100	Periodic charge matching driven immobilization of gentamicin in nanoclays for stable and long-term antibacterial coating. Dalton Transactions, 2021, 50, 14216-14222.	3.3	4
101	Controlled supramolecular structure of guanosine monophosphate in the interlayer space of layered double hydroxide. Beilstein Journal of Nanotechnology, 2016, 7, 1928-1935.	2.8	3
102	Controlled drug release in silicone adhesive utilizing particulate additives. Korean Journal of Chemical Engineering, 2017, 34, 1600-1603.	2.7	3
103	Ethylene Scavenging Ability of Permanganate Incorporated Nanoclays. Journal of Nanoscience and Nanotechnology, 2017, 17, 3576-3580.	0.9	3
104	Synthetic mineral containing Sr, Ca, and Fe and its hybridization with soybean extract for synergetic bone regeneration. Materials Chemistry and Physics, 2020, 255, 123620.	4.0	3
105	Encapsulation and Release Control of Fish Pathogen Utilizing Cross-Linked Alginate Networks and Clay Nanoparticles for Use with a Potential Oral Vaccination. Applied Sciences (Switzerland), 2020, 10, 2679.	2.5	3
106	Facile Synthetic Route to a Nitrogen-Doped Titanium Oxide with Enhanced Photoelectrochemical Property via Proton Beam Irradiation. Bulletin of the Korean Chemical Society, 2017, 38, 556-560.	1.9	2
107	Controlled Crystal Growth of Two-Dimensional Layered Nanomaterials in Hydrogel via a Modified Electrical Double Migration Method. Crystal Growth and Design, 2017, 17, 6596-6602.	3.0	2
108	Fibrous Silver Particles Prepared from Layered Silver Alkanethiolates and Their Catalytic Property. Journal of Nanoscience and Nanotechnology, 2017, 17, 3581-3587.	0.9	2

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109	LAYERED DOUBLE HYDROXIDE-BASED MRI/CT DUAL MODAL CONTRASTING AGENT WITH HOMOGENEOUS PARTICLE SIZE. Clays and Clay Minerals, 2021, 69, 425.	1.3	2
110	Cold sintering yields first layered double hydroxides (LDH) monolithic materials. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 280, 115704.	3.5	2
111	Hybridization of Layered Iron Hydroxide Nanoclays and Conducting Polymer for Controlled Oxygen Scavenger. Applied Sciences (Switzerland), 2018, 8, 1742.	2.5	1
112	SUSTAINED ANTIBACTERIAL EFFECT OF LEVOFLOXACIN DRUG IN A POLYMER MATRIX BY HYBRIDIZATION WITH A LAYERED DOUBLE HYDROXIDE. Clays and Clay Minerals, 0, , 1.	1.3	1
113	Incorporation of Antibacterial Natural Extract into Layered Double Hydroxide through Memory Effect for Antibacterial Materials. Ceramist, 2019, 22, 301-315.	0.1	1
114	Homogeneous Incorporation of Gallium into Layered Double Hydroxide Lattice for Potential Radiodiagnostics: Proof-of-Concept. Nanomaterials, 2021, 11, 44.	4.1	1
115	2P574 Bio-organic-inorganic ternary nanohybrids for DNA-barcode system(53. Bioengineering,Poster) Tj ETQq1 1 0,784314 rgBT /Over	0.1	0
116	Morphology dependent biological behavior of calcite materials. Journal of the Ceramic Society of Japan, 2014, 122, 596-600.	1.1	0
117	Controlling surface dipole via applying current through conductive polyurethane-based organic/inorganic film to prohibit biofouling. Progress in Organic Coatings, 2022, 165, 106717.	3.9	0