Qinghua Zeng

List of Publications by Year
in descending order

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Version: 2024-02-01

57 papers	3,603 citations	257101 24 h-index	155451 55 g-index
60 all docs	60 docs citations	60 times ranked	4897 citing authors

#	Article	IF	Citations
1	Inorganic nanoparticles as carriers for efficient cellular delivery. Chemical Engineering Science, 2006, 61, 1027-1040.	1.9	841
2	Multiscale modeling and simulation of polymer nanocomposites. Progress in Polymer Science, 2008, 33, 191-269.	11.8	562
3	Clay-Based Polymer Nanocomposites: Research and Commercial Development. Journal of Nanoscience and Nanotechnology, 2005, 5, 1574-1592.	0.9	482
4	Synthesis of polymerÂmontmorillonite nanocomposites byin situintercalative polymerization. Nanotechnology, 2002, 13, 549-553.	1.3	152
5	Molecular Dynamics Simulation of Organicâ˜Inorganic Nanocomposites:â€‰ Layering Behavior and Interlayer Structure of Organoclays. Chemistry of Materials, 2003, 15, 4732-4738.	3.2	147
6	Thiol-Frozen Shape Evolution of Triangular Silver Nanoplates. Langmuir, 2007, 23, 2218-2223.	1.6	146
7	Flameâ€Synthesized Ceriaâ€Supported Copper Dimers for Preferential Oxidation of CO. Advanced Functional Materials, 2009, 19, 369-377.	7.8	120
8	A self-seeding coreduction method for shape control of silver nanoplates. Nanotechnology, 2006, 17, 4929-4935.	1.3	88
9	Growth mechanisms of silver nanoparticles: a molecular dynamics study. Nanotechnology, 2007, 18, 035708.	1.3	84
10	The interlayer swelling and molecular packing in organoclays. Journal of Colloid and Interface Science, 2005, 292, 462-468.	5.0	80
11	Molecular Dynamics Simulation of the Structural and Dynamic Properties of Dioctadecyldimethyl Ammoniums in Organoclays. Journal of Physical Chemistry B, 2004, 108, 10025-10033.	1.2	71
12	Effect of Cation Intercalation on the Growth of Hexagonal WO₃ Nanorods. Journal of Physical Chemistry C, 2012, 116, 11722-11727.	1.5	64
13	Calculation of Normal Contact Forces between Silica Nanospheres. Langmuir, 2013, 29, 7825-7837.	1.6	61
14	Structureâ€“property interface correlation of fly ashâ€“isotactic polypropylene composites. Journal of Materials Science, 2009, 44, 6078-6089.	1.7	51
15	Calculation of Noncontact Forces between Silica Nanospheres. Langmuir, 2013, 29, 2175-2184.	1.6	51
16	Self-assembly of particles: some thoughts and comments. Journal of Materials Chemistry, 2011, 21, 16797.	6.7	46
17	Leaching behaviors of iron and aluminum elements of ion-absorbed-rare-earth ore with a new impurity depressant. Transactions of Nonferrous Metals Society of China, 2014, 24, 2986-2990.	1.7	45
18	Leaching kinetics of ionic rare-earth in ammonia-nitrogen wastewater system added with impurity inhibitors. Journal of Rare Earths, 2014, 32, 1175-1183.	2.5	40

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19	Interfacial interactions and structure of polyurethane intercalated nanocomposite. Nanotechnology, 2005, 16, 2757-2763.	1.3	32
20	Evaluation of Interaction Forces between Nanoparticles by Molecular Dynamics Simulation. Industrial & Engineering Chemistry Research, 2010, 49, 12793-12797.	1.8	28
21	Young's modulus of effective clay clusters in polymer nanocomposites. Polymer, 2012, 53, 3735-3740.	1.8	28
22	Self-assembly of granular spheres under one-dimensional vibration. Soft Matter, 2018, 14, 9856-9869.	1.2	28
23	Experimental and numerical study of cetyltrimethylammonium bromide (CTAB)-directed synthesis of goethite nanorods. Solid State Sciences, 2010, 12, 1152-1159.	1.5	27
24	Electronic Structure of Metal (M = Au, Pt, Pd, or Ru) Bilayer Modified Î±-Fe₂O₃(0001) Surfaces. Journal of Physical Chemistry C, 2011, 115, 4656-4663.	1.5	25
25	Interfacial synergistic effect of the Cu monomer or CuO dimer modified CeO2(111) catalyst for CO oxidation. Chemical Engineering Journal, 2011, 174, 408-412.	6.6	24
26	Bimodal self-assembly of granular spheres under vertical vibration. Soft Matter, 2019, 15, 5933-5944.	1.2	23
27	Molecular dynamics simulations of organoclays and polymer nanocomposites. International Journal of Nanotechnology, 2008, 5, 277.	0.1	22
28	Gold catalysts: A new insight into the molecular adsorption and CO oxidation. Chemical Engineering Journal, 2009, 155, 824-828.	6.6	20
29	Molecular dynamics simulation of aluminum inhibited leaching during ion-adsorbed type rare earth ore leaching process. Journal of Rare Earths, 2019, 37, 1334-1340.	2.5	20
30	Interaction forces between carbon nanospheres: A molecular dynamics simulation study. Chemical Engineering Science, 2015, 121, 23-31.	1.9	19
31	Morphological and mechanical properties of graphene-reinforced PMMA nanocomposites using a multiscale analysis. Computational Materials Science, 2018, 150, 107-120.	1.4	17
32	Advanced utilization of as received and near whitened fly ash in polypropylene polymer to improve mechanical, notched impact and whiteness colour properties. International Journal of Plastics Technology, 2010, 14, 51-56.	2.9	12
33	DEM study and machine learning model of particle percolation under vibration. Advanced Powder Technology, 2022, 33, 103551.	2.0	12
34	Explicit contact force model for superellipses by Fourier transform and application to superellipse packing. Powder Technology, 2020, 361, 112-123.	2.1	11
35	Computational studies on interparticle forces between nanoellipsoids. RSC Advances, 2014, 4, 38505.	1.7	10
36	Molecular understanding of the deposition of gold nanoclusters on TiO2(110). Applied Physics Letters, 2008, 92, 103109.	1.5	8

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37	Determination of Interphase Thickness and Mechanical Properties of Effective Nanofillers in Polymer Nanocomposites by Molecular Dynamic Simulation. Materials Science Forum, 0, 654-656, 1654-1657.	0.3	8
38	Effect of vibration mode on self-assembly of granular spheres under three-dimensional vibration. Powder Technology, 2021, 380, 47-58.	2.1	8
39	Prediction of the overall Youngâ€™s moduli of clay-based polymer nanocomposites. Journal of Composite Materials, 2015, 49, 3459-3469.	1.2	7
40	Effect of Continuous Annealing Temperature on Microstructure and Properties of Ultra-Purified Ferritic Stainless Steel. Steel Research International, 2017, 88, 1600347.	1.0	7
41	Promoting the removal of fine particles by surfactants in a novel cyclone with heterogeneous-condensation agglomeration: A combined experimental and molecular dynamics study. Fuel, 2022, 327, 125217.	3.4	7
42	Interfacial interactions in clay-based nylon 6 nanocomposites: A density functional theory study. Computational Materials Science, 2009, 46, 942-949.	1.4	6
43	Atomic and Electronic Structures of M (=Ni, Fe, NiFe, or FeNi) Adlayer-Modified Î±-Al₂O₃(0001) Catalyst Interface. Journal of Physical Chemistry C, 2011, 115, 13796-13803.	1.5	6
44	Effects of drug chemistry on the dispersion and release behaviour of polyurethane organosilicate nanocomposites. European Polymer Journal, 2013, 49, 652-663.	2.6	6
45	A quick method for developing interparticle force models of spherical gold nanoparticles from molecular dynamics simulation. Powder Technology, 2020, 362, 501-506.	2.1	6
46	Cassiterite Flotation with Sulphosuccinamate Collector. Geosystem Engineering, 1998, 1, 30-34.	0.7	5
47	Preparation of flexible polyhedral particlesvia concentrated emulsion templating polymerization. Polymer International, 2005, 54, 1366-1370.	1.6	5
48	Prediction of the Mechanical Properties of Nanocomposites. , 0, , 301-331.		5
49	Mixing of Particles in a Rotating Drum with Inclined Axis of Rotation. Processes, 2020, 8, 1688.	1.3	5
50	Influence of Metal Cations on Cassiterite Flotation. Geosystem Engineering, 1998, 1, 53-57.	0.7	4
51	Interfacial Interactions in Clay-Based Polymer Nanocomposites: Effect of Surfactant. Advanced Materials Research, 0, 129-131, 607-611.	0.3	4
52	One approximate generic equation for calculating inter-nanoparticle forces. Powder Technology, 2017, 314, 2-8.	2.1	4
53	Mechanical properties of kirigami phosphorene via molecular dynamics simulation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126784.	0.9	4
54	Quantification of the Interface Interactions in Polymer Nanocomposites. Materials Science Forum, 2010, 654-656, 2608-2611.	0.3	2

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55	Electronic Structure of Bilayer (Fe, Ni) Metallic Î±-Al₂O₃(0001) Catalysts Towards CH₄ Adsorption and Dissociation. Materials Science Forum, 2010, 654-656, 2747-2750.	0.3	1
56	Molecular Dynamics Simulation of Au-TiO₂ Catalysts: Deposition of Gold Nanoclusters on Rutile (110) Surface. Advanced Materials Research, 0, 418-420, 870-875.	0.3	1
57	A New Interaction Force Model of Gold Nanorods Derived by Molecular Dynamics Simulation. Nanomaterials, 2020, 10, 1293.	1.9	1