Qinghua Zeng

List of Publications by Year
in descending order

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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	DEM study and machine learning model of particle percolation under vibration. Advanced Powder Technology, 2022, 33, 103551.	2.0	12
2	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
3	Effect of vibration mode on self-assembly of granular spheres under three-dimensional vibration. Powder Technology, 2021, 380, 47-58.	2.1	8
4	Explicit contact force model for superellipses by Fourier transform and application to superellipse packing. Powder Technology, 2020, 361, 112-123.	2.1	11
5	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
6	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
7	A New Interaction Force Model of Gold Nanorods Derived by Molecular Dynamics Simulation. Nanomaterials, 2020, 10, 1293.	1.9	1
8	Mixing of Particles in a Rotating Drum with Inclined Axis of Rotation. Processes, 2020, 8, 1688.	1.3	5
9	Bimodal self-assembly of granular spheres under vertical vibration. Soft Matter, 2019, 15, 5933-5944.	1.2	23
10	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
11	Morphological and mechanical properties of graphene-reinforced PMMA nanocomposites using a multiscale analysis. Computational Materials Science, 2018, 150, 107-120.	1.4	17
12	Self-assembly of granular spheres under one-dimensional vibration. Soft Matter, 2018, 14, 9856-9869.	1.2	28
13	One approximate generic equation for calculating inter-nanoparticle forces. Powder Technology, 2017, 314, 2-8.	2.1	4
14	Effect of Continuous Annealing Temperature on Microstructure and Properties of Ultra-Purified Ferritic Stainless Steel. Steel Research International, 2017, 88, 1600347.	1.0	7
15	Interaction forces between carbon nanospheres: A molecular dynamics simulation study. Chemical Engineering Science, 2015, 121, 23-31.	1.9	19
16	Prediction of the overall Youngâ€™s moduli of clay-based polymer nanocomposites. Journal of Composite Materials, 2015, 49, 3459-3469.	1.2	7
17	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
18	Computational studies on interparticle forces between nanoellipsoids. RSC Advances, 2014, 4, 38505.	1.7	10

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19	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
20	Calculation of Noncontact Forces between Silica Nanospheres. Langmuir, 2013, 29, 2175-2184.	1.6	51
21	Effects of drug chemistry on the dispersion and release behaviour of polyurethane organosilicate nanocomposites. European Polymer Journal, 2013, 49, 652-663.	2.6	6
22	Calculation of Normal Contact Forces between Silica Nanospheres. Langmuir, 2013, 29, 7825-7837.	1.6	61
23	Young's modulus of effective clay clusters in polymer nanocomposites. Polymer, 2012, 53, 3735-3740.	1.8	28
24	Effect of Cation Intercalation on the Growth of Hexagonal WO₃ Nanorods. Journal of Physical Chemistry C, 2012, 116, 11722-11727.	1.5	64
25	Self-assembly of particles: some thoughts and comments. Journal of Materials Chemistry, 2011, 21, 16797.	6.7	46
26	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
27	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
28	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
29	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
30	Experimental and numerical study of cetyltrimethylammonium bromide (CTAB)-directed synthesis of goethite nanorods. Solid State Sciences, 2010, 12, 1152-1159.	1.5	27
31	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
32	Quantification of the Interface Interactions in Polymer Nanocomposites. Materials Science Forum, 2010, 654-656, 2608-2611.	0.3	2
33	Evaluation of Interaction Forces between Nanoparticles by Molecular Dynamics Simulation. Industrial & Engineering Chemistry Research, 2010, 49, 12793-12797.	1.8	28
34	Flameâ€Synthesized Ceriaâ€Supported Copper Dimers for Preferential Oxidation of CO. Advanced Functional Materials, 2009, 19, 369-377.	7.8	120
35	Structureâ€“property interface correlation of fly ashâ€“isotactic polypropylene composites. Journal of Materials Science, 2009, 44, 6078-6089.	1.7	51
36	Gold catalysts: A new insight into the molecular adsorption and CO oxidation. Chemical Engineering Journal, 2009, 155, 824-828.	6.6	20

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37	Interfacial interactions in clay-based nylon 6 nanocomposites: A density functional theory study. Computational Materials Science, 2009, 46, 942-949.	1.4	6
38	Multiscale modeling and simulation of polymer nanocomposites. Progress in Polymer Science, 2008, 33, 191-269.	11.8	562
39	Molecular understanding of the deposition of gold nanoclusters on TiO2(110). Applied Physics Letters, 2008, 92, 103109.	1.5	8
40	Molecular dynamics simulations of organoclays and polymer nanocomposites. International Journal of Nanotechnology, 2008, 5, 277.	0.1	22
41	Thiol-Frozen Shape Evolution of Triangular Silver Nanoplates. Langmuir, 2007, 23, 2218-2223.	1.6	146
42	Growth mechanisms of silver nanoparticles: a molecular dynamics study. Nanotechnology, 2007, 18, 035708.	1.3	84
43	A self-seeding coreduction method for shape control of silver nanoplates. Nanotechnology, 2006, 17, 4929-4935.	1.3	88
44	Inorganic nanoparticles as carriers for efficient cellular delivery. Chemical Engineering Science, 2006, 61, 1027-1040.	1.9	841
45	The interlayer swelling and molecular packing in organoclays. Journal of Colloid and Interface Science, 2005, 292, 462-468.	5.0	80
46	Preparation of flexible polyhedral particlesvia concentrated emulsion templating polymerization. Polymer International, 2005, 54, 1366-1370.	1.6	5
47	Clay-Based Polymer Nanocomposites: Research and Commercial Development. Journal of Nanoscience and Nanotechnology, 2005, 5, 1574-1592.	0.9	482
48	Interfacial interactions and structure of polyurethane intercalated nanocomposite. Nanotechnology, 2005, 16, 2757-2763.	1.3	32
49	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
50	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
51	Synthesis of polymerÂmontmorillonite nanocomposites byin situintercalative polymerization. Nanotechnology, 2002, 13, 549-553.	1.3	152
52	Cassiterite Flotation with Sulphosuccinamate Collector. Geosystem Engineering, 1998, 1, 30-34.	0.7	5
53	Influence of Metal Cations on Cassiterite Flotation. Geosystem Engineering, 1998, 1, 53-57.	0.7	4
54	Prediction of the Mechanical Properties of Nanocomposites. , 0, , 301-331.		5

#	Article	IF	Citations
55	Interfacial Interactions in Clay-Based Polymer Nanocomposites: Effect of Surfactant. Advanced Materials Research, 0, 129-131, 607-611.	0.3	4
56	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
57	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