

Weifu Sun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2190355/publications.pdf>

Version: 2024-02-01

33
papers

749
citations

516710

16
h-index

526287

27
g-index

33
all docs

33
docs citations

33
times ranked

766
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculation of Normal Contact Forces between Silica Nanospheres. <i>Langmuir</i> , 2013, 29, 7825-7837.	3.5	61
2	Interaction forces between a spherical nanoparticle and a flat surface. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5846.	2.8	59
3	Nd ₂ (S, Se, Te) ₃ Colloidal Quantum Dots: Synthesis, Energy Level Alignment, Charge Transfer Dynamics, and Their Applications to Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 254-266.	14.9	53
4	Electroless deposition of silver particles on graphite nanosheets. <i>Scripta Materialia</i> , 2008, 59, 1031-1034.	5.2	52
5	Calculation of Noncontact Forces between Silica Nanospheres. <i>Langmuir</i> , 2013, 29, 2175-2184.	3.5	51
6	Exciton Generation/Dissociation/Charge-Transfer Enhancement in Inorganic/Organic Hybrid Solar Cells by Robust Single Nanocrystalline LnPO ₃ (Ln = Eu, Y) Doping. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8771-8781.	8.0	40
7	Reducing the excess energy offset in organic/inorganic hybrid solar cells: Toward faster electron transfer. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 524-531.	20.2	40
8	The dynamic effect on mechanical contacts between nanoparticles. <i>Nanoscale</i> , 2013, 5, 12658.	5.6	38
9	The origin of efficiency enhancement of inorganic/organic Hybrid solar Cells by robust samarium phosphate nanophosphors. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 426-434.	6.2	33
10	Energy level control: toward an efficient hot electron transport. <i>Scientific Reports</i> , 2014, 4, 5983.	3.3	32
11	Energy gradient architected praseodymium chalcogenide quantum dot solar cells: towards unidirectionally funneling energy transfer. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23876-23887.	10.3	23
12	Core-Shell Nanophosphor Architecture: Toward Efficient Energy Transport in Inorganic/Organic Hybrid Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12798-12807.	8.0	21
13	Efficient electron/hole transport in inorganic/organic hybrid solar cells by lithium ion and molybdenum trioxide codoping. <i>Journal of Power Sources</i> , 2014, 268, 874-881.	7.8	20
14	Interactions between crystalline nanospheres: comparisons between molecular dynamics simulations and continuum models. <i>RSC Advances</i> , 2014, 4, 34500.	3.6	20
15	Benzoyl Peroxide/Vinylpyridine Synergy in RAFT Polymerization: Synthesis of Poly(Vinylpyridine) with Low Dispersity at Ambient Temperature. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1646-1652.	2.2	19
16	Interaction forces between carbon nanospheres: A molecular dynamics simulation study. <i>Chemical Engineering Science</i> , 2015, 121, 23-31.	3.8	19
17	Dynamic mechanical contact behaviors and sintering mechanism of Al nanoparticles subjected to high-speed impact. <i>Materials Chemistry and Physics</i> , 2021, 273, 125111.	4.0	19
18	Microstructural evolution and mechanical properties of Al _x CoCrFeNi high-entropy alloys under uniaxial tension: A molecular dynamics simulations study. <i>Materials Today Communications</i> , 2021, 28, 102525.	1.9	18

#	ARTICLE	IF	CITATIONS
19	Low-velocity impact response of sandwich composite panels with shear thickening gel filled honeycomb cores. <i>Composites Communications</i> , 2022, 32, 101136.	6.3	14
20	Synthesis, Characterizations and Mechanical Properties of Microcapsules with Dual Shell of Polyurethane (PU)/Melamine Formaldehyde (MF): Effect of Different Chain Extenders. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3591-3601.	3.7	13
21	Tailoring solar energy spectrum for efficient organic/inorganic hybrid solar cells by up-conversion luminescence nanophosphors. <i>Electrochimica Acta</i> , 2015, 182, 416-423.	5.2	11
22	Computational studies on interparticle forces between nanoellipsoids. <i>RSC Advances</i> , 2014, 4, 38505.	3.6	10
23	Ruthenium cation substitutional doping for efficient charge carrier transfer in organic/inorganic hybrid solar cells. <i>Journal of Power Sources</i> , 2015, 274, 701-708.	7.8	10
24	Defect engineering of carbon nanotubes and its effect on mechanical properties of carbon nanotubes/polymer nanocomposites: A molecular dynamics study. <i>Composites Communications</i> , 2021, 28, 100911.	6.3	10
25	In situ synthesis of binary cobalt-ruthenium nanofiber alloy counter electrode for electrolyte-free cadmium sulfide quantum dot solar cells. <i>Journal of Power Sources</i> , 2015, 284, 162-169.	7.8	9
26	Small bandgap naphthalene diimide copolymers for efficient inorganic-organic hybrid solar cells. <i>RSC Advances</i> , 2015, 5, 2147-2154.	3.6	8
27	RAFT Copolymerization of Styrene and Maleic Anhydride with Addition of Ascorbic Acid at Ambient Temperature. <i>Advances in Polymer Technology</i> , 2020, 2020, 1-8.	1.7	8
28	Hierarchical Surface Patterns via Global Wrinkling on Curved Substrate for Fluid Drag Control. <i>Advanced Materials Interfaces</i> , 2021, 8, .	3.7	8
29	Efficiency enhancement via tailoring energy level alignment induced by vanadium ion doping in organic/inorganic hybrid solar cells. <i>RSC Advances</i> , 2014, 4, 46008-46015.	3.6	7
30	Enhanced charge transport and photovoltaic performance induced by incorporating rare-earth phosphor into organic-inorganic hybrid solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24499-24508.	2.8	7
31	Dynamic mechanical contact behaviours of amorphous nanoparticles subjected to high-speed impact. <i>Powder Technology</i> , 2020, 364, 689-697.	4.2	7
32	Effect of difunctional acids on the physicochemical, thermal, and mechanical properties of polyester polyol-based polyurethane coatings. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	5
33	Reduced energy offset via substitutional doping for efficient organic/inorganic hybrid solar cells. <i>Optics Express</i> , 2015, 23, A444.	3.4	4