

Hongyou Fan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/562109/hongyou-fan-publications-by-year.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66 papers	4,431 citations	34 h-index	66 g-index
67 ext. papers	4,881 ext. citations	11.8 avg, IF	5.51 L-index

#	Paper	IF	Citations
66	Pressure Induced Assembly and Coalescence of Lead Chalcogenide Nanocrystals. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2688-2693	16.4	5
65	X-Ray Diffraction and Electron Microscopy Studies of the Size Effects on Pressure-Induced Phase Transitions in CdS Nanocrystals. <i>MRS Advances</i> , 2020 , 5, 2447-2455	0.7	1
64	Shape Dependence of Pressure-Induced Phase Transition in CdS Semiconductor Nanocrystals. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6505-6510	16.4	20
63	Self-assembly of functional nanoscale materials. <i>MRS Bulletin</i> , 2020 , 45, 135-141	3.2	2
62	Porphyrin-based photocatalysts for hydrogen production. <i>MRS Bulletin</i> , 2020 , 45, 49-56	3.2	19
61	Surfactant-Assisted Cooperative Self-Assembly of Nanoparticles into Active Nanostructures. <i>IScience</i> , 2019 , 11, 272-293	6.1	45
60	Pressure Induced Nanoparticle Phase Behavior, Property, and Applications. <i>Chemical Reviews</i> , 2019 , 119, 7673-7717	68.1	98
59	Fabrication of Nickel Oxide Nanopillar Arrays on Flexible Electrodes for Highly Efficient Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 3676-3683	11.5	33
58	MoS-OH Bilayer-Mediated Growth of Inch-Sized Monolayer MoS on Arbitrary Substrates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5392-5401	16.4	56
57	Oriented Gold Nanorod Arrays: Self-Assembly and Optoelectronic Applications. <i>Angewandte Chemie</i> , 2019 , 131, 12082-12092	3.6	8
56	Oriented Gold Nanorod Arrays: Self-Assembly and Optoelectronic Applications. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11956-11966	16.4	52
55	Microemulsion-Assisted Self-Assembly and Synthesis of Size-Controlled Porphyrin Nanocrystals with Enhanced Photocatalytic Hydrogen Evolution. <i>Nano Letters</i> , 2019 , 19, 2614-2619	11.5	59
54	Cooperative self-assembly of porphyrins and derivatives. <i>MRS Bulletin</i> , 2019 , 44, 178-182	3.2	9
53	Identification of Porphyrin-Silica Composite Nanoparticles using Atmospheric Solids Analysis Probe Mass Spectrometry. <i>MRS Advances</i> , 2019 , 4, 2079-2086	0.7	
52	Synthesis of Self-Assembled Porphyrin Nanoparticle Photosensitizers. <i>ACS Nano</i> , 2018 , 12, 3796-3803	16.7	152
51	Surfactant-Assisted Synthesis of Tetragonal Porphyrin Microparticles. <i>MRS Advances</i> , 2018 , 3, 2757-2762	0.7	1
50	Self-Assembled One-Dimensional Porphyrin Nanostructures with Enhanced Photocatalytic Hydrogen Generation. <i>Nano Letters</i> , 2018 , 18, 560-566	11.5	129

49	Formation of self-assembled gold nanoparticle supercrystals with facet-dependent surface plasmonic coupling. <i>Nature Communications</i> , 2018 , 9, 2365	17.4	41
48	Controlled Self-Assembly and Tuning of Large PbS Nanoparticle Supercrystals. <i>Chemistry of Materials</i> , 2018 , 30, 6788-6793	9.6	31
47	Modeling pressure-driven assembly of polymer coated nanoparticles 2018 ,		2
46	Fabrication of Large-Area Arrays of Vertically Aligned Gold Nanorods. <i>Nano Letters</i> , 2018 , 18, 4467-4472	11.5	55
45	Pressure compression of CdSe nanoparticles into luminescent nanowires. <i>Science Advances</i> , 2017 , 3, e1602916	13.5	50
44	Superfast assembly and synthesis of gold nanostructures using nanosecond low-temperature compression via magnetic pulsed power. <i>Nature Communications</i> , 2017 , 8, 14778	17.4	25
43	pH-Dependent Assembly of Porphyrin-Silica Nanocomposites and Their Application in Targeted Photodynamic Therapy. <i>Nano Letters</i> , 2017 , 17, 6916-6921	11.5	83
42	Regulating Multiple Variables To Understand the Nucleation and Growth and Transformation of PbS Nanocrystal Superlattices. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14476-14482	16.4	39
41	Morphology-Controlled Synthesis and Metalation of Porphyrin Nanoparticles with Enhanced Photocatalytic Performance. <i>Nano Letters</i> , 2016 , 16, 6523-6528	11.5	112
40	Pressure-Tuned Structure and Property of Optically Active Nanocrystals. <i>Advanced Materials</i> , 2016 , 28, 1989-93	24	20
39	Nanocrystals: Pressure-Tuned Structure and Property of Optically Active Nanocrystals (Adv. Mater. 10/2016). <i>Advanced Materials</i> , 2016 , 28, 1988-1988	24	
38	Nanomaterials under stress: A new opportunity for nanomaterials synthesis and engineering. <i>MRS Bulletin</i> , 2015 , 40, 961-970	3.2	9
37	Preparation of highly luminescent and color tunable carbon nanodots under visible light excitation for in vitro and in vivo bio-imaging. <i>Journal of Materials Research</i> , 2015 , 30, 3386-3393	2.5	15
36	Poly(N-isopropylacrylamide) surfactant-functionalized responsive silver nanoparticles and superlattices. <i>ACS Nano</i> , 2014 , 8, 4799-804	16.7	41
35	Instant gelation synthesis of 3D porous MoS ₂ @C nanocomposites for lithium ion batteries. <i>Nanoscale</i> , 2014 , 6, 3664-9	7.7	56
34	Morphology-controlled self-assembly and synthesis of photocatalytic nanocrystals. <i>Nano Letters</i> , 2014 , 14, 7175-9	11.5	98
33	Deviatoric stress-driven fusion of nanoparticle superlattices. <i>Nano Letters</i> , 2014 , 14, 4951-8	11.5	31
32	Interfacial self-assembly driven formation of hierarchically structured nanocrystals with photocatalytic activity. <i>ACS Nano</i> , 2014 , 8, 827-33	16.7	107

31	Stress-induced nanoparticle crystallization. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7634-6	16.4	52
30	Formation mechanism and optimization of highly luminescent N-doped graphene quantum dots. <i>Scientific Reports</i> , 2014 , 4, 5294	4.9	639
29	Stress-induced phase transformation and optical coupling of silver nanoparticle superlattices into mechanically stable nanowires. <i>Nature Communications</i> , 2014 , 5, 4179	17.4	90
28	Phase control of hierarchically structured mesoporous anatase TiO ₂ microspheres covered with {001} facets. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21965		63
27	Monodisperse Fluorescent Organic/Inorganic Composite Nanoparticles: Tuning Full Color Spectrum. <i>Chemistry of Materials</i> , 2012 , 24, 3415-3419	9.6	49
26	Smart polydiacetylene nanowire paper with tunable colorimetric response. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14839		22
25	Deviatoric stress driven formation of large single-crystal PbS nanosheet from nanoparticles and in situ monitoring of oriented attachment. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14484-7	16.4	144
24	Porous one-dimensional nanostructures through confined cooperative self-assembly. <i>Nano Letters</i> , 2011 , 11, 5196-200	11.5	67
23	Templated photocatalytic synthesis of well-defined platinum hollow nanostructures with enhanced catalytic performance for methanol oxidation. <i>Nano Letters</i> , 2011 , 11, 3759-62	11.5	107
22	Template directed assembly of dynamic micellar nanoparticles. <i>Soft Matter</i> , 2011 , 7, 10252	3.6	6
21	Nanostructured gold architectures formed through high pressure-driven sintering of spherical nanoparticle arrays. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12826-8	16.4	84
20	Monodisperse porous nanodiscs with fluorescent and crystalline wall structure. <i>Chemical Communications</i> , 2010 , 46, 4941-3	5.8	28
19	Pressure-Driven Assembly of Spherical Nanoparticles and Formation of 1D-Nanostructure Arrays. <i>Angewandte Chemie</i> , 2010 , 122, 8609-8612	3.6	12
18	Pressure-driven assembly of spherical nanoparticles and formation of 1D-nanostructure arrays. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8431-4	16.4	68
17	Hydrogen-bonding-assisted self-assembly: monodisperse hollow nanoparticles made easy. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13594-5	16.4	49
16	Nanocrystal-micelle: synthesis, self-assembly and application. <i>Chemical Communications</i> , 2008 , 1383-94	5.8	53
15	Dynamic investigation of gold nanocrystal assembly using in situ grazing-incidence small-angle X-ray scattering. <i>Langmuir</i> , 2008 , 24, 10575-8	4	34
14	Convective self-assembly to deposit supported ultra-thin mesoporous silica films. <i>Journal of Materials Chemistry</i> , 2006 , 16, 4637		25

13	Ordered nanocrystal/silica particles self-assembled from nanocrystal micelles and silicate. <i>Chemical Communications</i> , 2006 , 2323-5	5.8	29
12	Hierarchically Organized Nanoparticle Mesostructure Arrays Formed through Hydrothermal Self-Assembly. <i>Chemistry of Materials</i> , 2006 , 18, 3034-3038	9.6	33
11	Surfactant-assisted synthesis of water-soluble and biocompatible semiconductor quantum dot micelles. <i>Nano Letters</i> , 2005 , 5, 645-8	11.5	210
10	Synthesis of organo-silane functionalized nanocrystal micelles and their self-assembly. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13746-7	16.4	52
9	Optical and electrical properties of self-assembled, ordered gold nanocrystal/silica thin films prepared by sol-gel processing. <i>Thin Solid Films</i> , 2005 , 491, 38-42	2.2	19
8	Surface Plasmon Excitation in Three-dimensional, Ordered, Gold Nanocrystal Arrays Using a Prism Coupler. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 900, 1		
7	Electrical and Optical Properties of Self-Assembled, Ordered Gold Nanocrystal/Silica Thin Films Prepared by Sol-Gel Processing. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 872, 1		0
6	Self-assembly of ordered, robust, three-dimensional gold nanocrystal/silica arrays. <i>Science</i> , 2004 , 304, 567-71	33.3	433
5	Evaporation-Induced Self-Assembly of Hybrid Bridged Silsesquioxane Film and Particulate Mesophases with Integral Organic Functionality. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5258-5261	16.4	427
4	Adsorption of Surface-Modified Colloidal Gold Particles onto Self-Assembled Monolayers: A Model System for the Study of Interactions of Colloidal Particles and Organic Surfaces. <i>Langmuir</i> , 1997 , 13, 1194-1211	4.121	33
3	Stepwise assembly in three dimensions: Preparation and characterization of layered gold nanoparticles in porous silica matrices. <i>Advanced Materials</i> , 1997 , 9, 728-731	24	24
2	Electrochemical Patterning of Self-Assembled Monolayers onto Microscopic Arrays of Gold Electrodes Fabricated by Laser Ablation. <i>Langmuir</i> , 1996 , 12, 5515-5518	4	75
1	High pressure induced atomic and mesoscale phase behaviors of one-dimensional TiO ₂ anatase nanocrystals. <i>MRS Bulletin</i> , 1	3.2	0