

Dong Qin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

9,463
citations

40
h-index

87
g-index

87
ext. papers

10,540
ext. citations

12.1
avg, IF

6.32
L-index

#	Paper	IF	Citations
85	Biomimetic Scaffolds with a Mineral Gradient and Funnel-Shaped Channels for Spatially Controllable Osteogenesis. <i>Advanced Healthcare Materials</i> , 2021 , e2100828	10.1	1
84	Noble-Metal Nanoframes and Their Catalytic Applications. <i>Chemical Reviews</i> , 2021 , 121, 796-833	68.1	40
83	Understanding the Role of Poly(vinylpyrrolidone) in Stabilizing and Capping Colloidal Silver Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 14242-14252	16.7	2
82	Bifunctional Metal Nanocrystals for Catalyzing and Reporting on Chemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3782-3792	16.4	12
81	Orthogonal deposition of Au on different facets of Ag cuboctahedra for the fabrication of nanoboxes with complementary surfaces. <i>Nanoscale</i> , 2020 , 12, 372-379	7.7	8
80	Gold nanocages for effective photothermal conversion and related applications. <i>Chemical Science</i> , 2020 , 11, 12955-12973	9.4	15
79	Preserving the shape of silver nanocubes under corrosive environment by covering their edges and corners with iridium. <i>Nanoscale</i> , 2020 , 12, 20859-20867	7.7	1
78	Revitalizing silver nanocrystals as a redox catalyst by modifying their surface with an isocyanide-based compound. <i>Chemical Science</i> , 2020 , 11, 11214-11223	9.4	4
77	Bifunctional Metal Nanocrystals for Catalyzing and Reporting on Chemical Reactions. <i>Angewandte Chemie</i> , 2020 , 132, 3810-3820	3.6	0
76	Transforming Noble-Metal Nanocrystals into Complex Nanostructures through Facet-Selective Etching and Deposition. <i>ChemNanoMat</i> , 2020 , 6, 5-14	3.5	7
75	Fabrication of Ag-Pd concave nanocrystals through facet-selective oxidation of Ag atoms. <i>Nanoscale</i> , 2019 , 11, 6710-6718	7.7	11
74	Comparative Study of the Adsorption of Thiol and Isocyanide Molecules on a Silver Surface by in Situ Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21571-21580	3.8	10
73	Fabrication of Nanoscale Cage Cubes by Drilling Orthogonal, Intersected Holes through All Six Side Faces of Ag Nanocubes. <i>Chemistry of Materials</i> , 2019 , 31, 9179-9187	9.6	7
72	Defect-Assisted Deposition of Au on Ag for the Fabrication of Core-Shell Nanocubes with Outstanding Chemical and Thermal Stability. <i>Chemistry of Materials</i> , 2019 , 31, 1057-1065	9.6	6
71	Syntheses, Plasmonic Properties, and Catalytic Applications of Ag@Rh Core-Frame Nanocubes and Rh Nanoboxes with Highly Porous Walls. <i>Chemistry of Materials</i> , 2018 , 30, 2151-2159	9.6	27
70	Facet-selective deposition of Au and Pt on Ag nanocubes for the fabrication of bifunctional Ag@Au-Pt nanocubes and trimetallic nanoboxes. <i>Nanoscale</i> , 2018 , 10, 8642-8649	7.7	18
69	Site-Selective Carving and Co-Deposition: Transformation of Ag Nanocubes into Concave Nanocrystals Encased by Au-Ag Alloy Frames. <i>ACS Nano</i> , 2018 , 12, 298-307	16.7	73

68	Rational design and synthesis of bifunctional metal nanocrystals for probing catalytic reactions by surface-enhanced Raman scattering. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5353-5362	7.1	16
67	Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Well-Controlled Surface Structures. <i>Advanced Materials</i> , 2018 , 30, e1801956	24	53
66	In Situ Atomic-Level Tracking of Heterogeneous Nucleation in Nanocrystal Growth with an Isocyanide Molecular Probe. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8340-8349	16.4	12
65	Shape-Controlled Synthesis of Colloidal Metal Nanocrystals by Replicating the Surface Atomic Structure on the Seed. <i>Advanced Materials</i> , 2018 , 30, e1706312	24	90
64	Bifunctional Ag@SiO ₂ /Au Nanoparticles for Probing Sequential Catalytic Reactions by Surface-Enhanced Raman Spectroscopy. <i>ChemNanoMat</i> , 2017 , 3, 245-251	3.5	9
63	Mechanistic Roles of Hydroxide in Controlling the Deposition of Gold on Colloidal Silver Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 4014-4021	9.6	28
62	Observing the Overgrowth of a Second Metal on Silver Cubic Seeds in Solution by Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2017 , 11, 5080-5086	16.7	25
61	Pt-Ag cubic nanocages with wall thickness less than 2 nm and their enhanced catalytic activity toward oxygen reduction. <i>Nanoscale</i> , 2017 , 9, 15107-15114	7.7	34
60	Enriching Silver Nanocrystals with a Second Noble Metal. <i>Accounts of Chemical Research</i> , 2017 , 50, 1774-1784	17.4	62
59	Facile Synthesis of ⁶⁴ Cu-Doped Au Nanocages for Positron Emission Tomography Imaging. <i>ChemNanoMat</i> , 2017 , 3, 44-50	3.5	12
58	Gold-Based Cubic Nanoboxes with Well-Defined Openings at the Corners and Ultrathin Walls Less Than Two Nanometers Thick. <i>ACS Nano</i> , 2016 , 10, 8019-25	16.7	57
57	Generation of Enzymatic Hydrogen Peroxide to Accelerate the Etching of Silver Nanocrystals with Selectivity. <i>Chemistry of Materials</i> , 2016 , 28, 7519-7527	9.6	5
56	Ag@Au Concave Cuboctahedra: A Unique Probe for Monitoring Au-Catalyzed Reduction and Oxidation Reactions by Surface-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2016 , 10, 2607-16	16.7	103
55	A Dual Catalyst with SERS Activity for Probing Stepwise Reduction and Oxidation Reactions. <i>ChemNanoMat</i> , 2016 , 2, 786-790	3.5	18
54	Bimetallic Nanocrystals: Syntheses, Properties, and Applications. <i>Chemical Reviews</i> , 2016 , 116, 10414-7268.1	104.6	
53	Ag-Enriched Ag-Pd Bimetallic Nanoframes and Their Catalytic Properties. <i>ChemNanoMat</i> , 2016 , 2, 494-499	3.5	35
52	Co-titration of AgNO ₃ and HAuCl ₄ : a new route to the synthesis of Ag@Ag ₂ S core-shell nanocubes with enhanced plasmonic and catalytic properties. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11833-11841	7.1	33
51	Bifunctional Ag@Pd-Ag Nanocubes for Highly Sensitive Monitoring of Catalytic Reactions by Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7039-42	16.4	148

50	Galvanic replacement-free deposition of Au on Ag for core-shell nanocubes with enhanced chemical stability and SERS activity. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8153-6	16.4	323
49	The role of etching in the formation of Ag nanoplates with straight, curved and wavy edges and comparison of their SERS properties. <i>Small</i> , 2014 , 10, 1430-7	11	53
48	Hollow nanocubes made of AgAu alloys for SERS detection with sensitivity of 10 ⁻⁸ M for melamine. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9934-9940	7.1	56
47	Transformation of Ag nanocubes into Ag-Au hollow nanostructures with enriched Ag contents to improve SERS activity and chemical stability. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3750-7	9.5	108
46	H ₂ AuCl ₄ : a dual agent for studying the chloride-assisted vertical growth of citrate-free Ag nanoplates with Au serving as a marker. <i>Langmuir</i> , 2014 , 30, 15520-30	4	8
45	Citrate-free synthesis of silver nanoplates and the mechanistic study. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6333-45	9.5	46
44	Droplet-based microreactors for continuous production of palladium nanocrystals with controlled sizes and shapes. <i>Small</i> , 2013 , 9, 3462-7	11	65
43	Silver nanocube on gold microplate as a well-defined and highly active substrate for SERS detection. <i>Journal of Materials Chemistry C</i> , 2013 , 1,	7.1	14
42	The role of surface chemistry on the toxicity of Ag nanoparticles. <i>Small</i> , 2013 , 9, 2628-38	11	31
41	Selective sulfuration at the corner sites of a silver nanocrystal and its use in stabilization of the shape. <i>Nano Letters</i> , 2011 , 11, 3010-5	11.5	86
40	Controlling the synthesis and assembly of silver nanostructures for plasmonic applications. <i>Chemical Reviews</i> , 2011 , 111, 3669-712	68.1	2056
39	Generation of Hot Spots with Silver Nanocubes for Single-Molecule Detection by Surface-Enhanced Raman Scattering. <i>Angewandte Chemie</i> , 2011 , 123, 5587-5591	3.6	48
38	Generation of hot spots with silver nanocubes for single-molecule detection by surface-enhanced Raman scattering. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5473-7	16.4	217
37	Soft lithography for micro- and nanoscale patterning. <i>Nature Protocols</i> , 2010 , 5, 491-502	18.8	1538
36	Nanofabrication at high throughput and low cost. <i>ACS Nano</i> , 2010 , 4, 3554-9	16.7	51
35	Rapid prototyping of microstructures by soft lithography for biotechnology. <i>Methods in Molecular Biology</i> , 2010 , 583, 81-107	1.4	45
34	Inverted size-dependence of surface-enhanced Raman scattering on gold nanohole and nanodisk arrays. <i>Nano Letters</i> , 2008 , 8, 1923-8	11.5	324
33	Nanotechnology: A TopDown Approach 2004 , 1-9		1

32	Surface patterning and its application in wetting/dewetting studies. <i>Current Opinion in Colloid and Interface Science</i> , 2001 , 6, 54-64	7.6	88
31	Light-Controlled Molecular Shuttles Made from Motor Proteins Carrying Cargo on Engineered Surfaces. <i>Nano Letters</i> , 2001 , 1, 235-239	11.5	289
30	Elastomeric optical elements with deformable surface topographies: applications to force measurements, tunable light transmission and light focusing. <i>Sensors and Actuators A: Physical</i> , 2000 , 86, 81-85	3.9	34
29	Soft Lithographic Approach to the Fabrication of Highly Ordered 2D Arrays of Magnetic Nanoparticles on the Surfaces of Silicon Substrates. <i>Langmuir</i> , 2000 , 16, 10369-10375	4	86
28	V-V Energy Transfer from Highly Vibrationally Excited Molecules through Transition Dipole Coupling: A Quantitative Test on Energy Transfer from SO ₂ (v >> 0) to SF ₆ (31) <i>Journal of Physical Chemistry A</i> , 2000 , 104, 10460-10463	2.8	12
27	Formation of patterned microstructures of polycrystalline ceramics from precursor polymers using micromolding in capillaries. <i>Journal of Materials Research</i> , 1999 , 14, 3995-4003	2.5	28
26	Formation of Patterned Microstructures of Conducting Polymers by Soft Lithography, and Applications in Microelectronic Device Fabrication. <i>Advanced Materials</i> , 1999 , 11, 1038-1041	24	157
25	Microfabricated polymer devices for automated sample delivery of peptides for analysis by electrospray ionization tandem mass spectrometry. <i>Analytical Chemistry</i> , 1999 , 71, 4437-44	7.8	91
24	Beam redirection and frequency filtering with transparent elastomeric diffractive elements. <i>Applied Optics</i> , 1999 , 38, 2997-3002	1.7	23
23	Assembly of Nanoparticles into Opaline Structures over Large Areas 1999 , 11, 466		3
22	Crystallization of Mesoscale Particles over Large Areas. <i>Advanced Materials</i> , 1998 , 10, 1028-1032	24	288
21	Fabrication of microstructures using shrinkable polystyrene films. <i>Sensors and Actuators A: Physical</i> , 1998 , 65, 209-217	3.9	45
20	Use of Electroless Silver as the Substrate in Microcontact Printing of Alkanethiols and Its Application in Microfabrication. <i>Langmuir</i> , 1998 , 14, 363-371	4	79
19	Photolithography with transparent reflective photomasks. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 98		40
18	Microfabrication, Microstructures and Microsystems. <i>Topics in Current Chemistry</i> , 1998 , 1-20		84
17	Crystallization of Mesoscale Particles over Large Areas 1998 , 10, 1028		1
16	Crystallization of Mesoscale Particles over Large Areas 1998 , 10, 1028		1
15	Collisional energy transfer of highly vibrationally excited NO ₂ : The role of intramolecular vibronic coupling and the transition dipole coupling mechanism. <i>Journal of Chemical Physics</i> , 1997 , 107, 2890-2902 ³⁹	3.9	49

14	Replica molding using polymeric materials: A practical step toward nanomanufacturing. <i>Advanced Materials</i> , 1997 , 9, 147-149	24	251
13	Fabrication of polymeric microstructures with high aspect ratios using shrinkable polystyrene films. <i>Advanced Materials</i> , 1997 , 9, 251-254	24	17
12	Elastomeric light valves. <i>Advanced Materials</i> , 1997 , 9, 407-410	24	28
11	Non-Photolithographic Methods for Fabrication of Elastomeric Stamps for Use in Microcontact Printing. <i>Langmuir</i> , 1996 , 12, 4033-4038	4	123
10	Rapid prototyping of complex structures with feature sizes larger than 20 μm . <i>Advanced Materials</i> , 1996 , 8, 917-919	24	213
9	Microcontact printing with a cylindrical rolling stamp: A practical step toward automatic manufacturing of patterns with submicrometer-sized features. <i>Advanced Materials</i> , 1996 , 8, 1015-1017	24	83
8	Elastomeric binary phase gratings for measuring acceleration, displacement, strain, and stress. <i>Review of Scientific Instruments</i> , 1996 , 67, 3310-3319	1.7	15
7	Renner-Teller effect on the highly excited bending levels of a $1A_1$ CH ₂ . <i>Journal of Chemical Physics</i> , 1995 , 102, 6641-6645	3.9	28
6	Intramolecular electronic coupling enhanced collisional deactivation of highly vibrationally excited molecules. <i>Journal of Chemical Physics</i> , 1995 , 102, 8677-8680	3.9	46
5	Collisional deactivation of highly vibrationally excited NO ₂ monitored by time-resolved Fourier transform infrared emission spectroscopy. <i>Journal of Chemical Physics</i> , 1994 , 100, 7832-7835	3.9	50
4	Observation of large vibration-to-vibration energy transfer collisions (≈ 3500 cm^{-1}) in quenching of highly excited NO ₂ by CO ₂ and N ₂ O. <i>Journal of Chemical Physics</i> , 1994 , 101, 8554-8563	3.9	44
3	State-to-state rotational energy transfer and reaction with ketene of highly vibrationally excited b $1B_1$ CH ₂ by time-resolved Fourier transform emission spectroscopy. <i>Journal of Chemical Physics</i> , 1993 , 98, 6906-6916	3.9	17
2	Fourier transform dispersed fluorescence spectroscopy: Observation of new vibrational levels in the 5000-8000 cm^{-1} region of a $1A_1$ CH ₂ . <i>Journal of Chemical Physics</i> , 1993 , 98, 2469-2472	3.9	41
1	Strong asymmetry induced $K_a=3$ transitions in the CH ₂ b $1B_1$ - \rightarrow -a $1A_1$ spectrum: A study by Fourier transform emission spectroscopy. <i>Journal of Chemical Physics</i> , 1992 , 97, 7010-7012	3.9	10