Dong Qin

List of Publications by Citations

85	9,463	40	87
papers	citations	h-index	g-index
87	10,540	12.1	6.32
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
85	Controlling the synthesis and assembly of silver nanostructures for plasmonic applications. *Chemical Reviews*, **2011**, 111, 3669-712	68.1	2056
84	Soft lithography for micro- and nanoscale patterning. *Nature Protocols*, **2010**, 5, 491-502	18.8	1538
83	Bimetallic Nanocrystals: Syntheses, Properties, and Applications. *Chemical Reviews*, **2016**, 116, 10414-72	68.1	1046
82	Inverted size-dependence of surface-enhanced Raman scattering on gold nanohole and nanodisk arrays. *Nano Letters*, **2008**, 8, 1923-8	11.5	324
81	Galvanic replacement-free deposition of Au on Ag for core-shell nanocubes with enhanced chemical stability and SERS activity. *Journal of the American Chemical Society*, **2014**, 136, 8153-6	16.4	323
80	Light-Controlled Molecular Shuttles Made from Motor Proteins Carrying Cargo on Engineered Surfaces. *Nano Letters*, **2001**, 1, 235-239	11.5	289
79	Crystallization of Mesoscale Particles over Large Areas. *Advanced Materials*, **1998**, 10, 1028-1032	24	288
78	Replica molding using polymeric materials: A practical step toward nanomanufacturing. *Advanced Materials*, **1997**, 9, 147-149	24	251
77	Generation of hot spots with silver nanocubes for single-molecule detection by surface-enhanced Raman scattering. *Angewandte Chemie - International Edition*, **2011**, 50, 5473-7	16.4	217
76	Rapid prototyping of complex structures with feature sizes larger than 20 μm. *Advanced Materials*, **1996**, 8, 917-919	24	213
75	Formation of Patterned Microstructures of Conducting Polymers by Soft Lithography, and Applications in Microelectronic Device Fabrication. *Advanced Materials*, **1999**, 11, 1038-1041	24	157
74	Bifunctional Ag@Pd-Ag Nanocubes for Highly Sensitive Monitoring of Catalytic Reactions by Surface-Enhanced Raman Spectroscopy. *Journal of the American Chemical Society*, **2015**, 137, 7039-42	16.4	148
73	Non-Photolithographic Methods for Fabrication of Elastomeric Stamps for Use in Microcontact Printing. *Langmuir*, **1996**, 12, 4033-4038	4	123
72	Transformation of Ag nanocubes into Ag-Au hollow nanostructures with enriched Ag contents to improve SERS activity and chemical stability. *ACS Applied Materials & Interfaces*, **2014**, 6, 3750-7	9.5	108
71	Ag@Au Concave Cuboctahedra: A Unique Probe for Monitoring Au-Catalyzed Reduction and Oxidation Reactions by Surface-Enhanced Raman Spectroscopy. *ACS Nano*, **2016**, 10, 2607-16	16.7	103
70	Microfabricated polymer devices for automated sample delivery of peptides for analysis by electrospray ionization tandem mass spectrometry. *Analytical Chemistry*, **1999**, 71, 4437-44	7.8	91
69	Shape-Controlled Synthesis of Colloidal Metal Nanocrystals by Replicating the Surface Atomic Structure on the Seed. *Advanced Materials*, **2018**, 30, e1706312	24	90

68	Surface patterning and its application in wetting/dewetting studies. *Current Opinion in Colloid and Interface Science*, **2001**, 6, 54-64	7.6	88
67	Selective sulfuration at the corner sites of a silver nanocrystal and its use in stabilization of the shape. *Nano Letters*, **2011**, 11, 3010-5	11.5	86
66	Soft Lithographic Approach to the Fabrication of Highly Ordered 2D Arrays of Magnetic Nanoparticles on the Surfaces of Silicon Substrates. *Langmuir*, **2000**, 16, 10369-10375	4	86
65	Microfabrication, Microstructures and Microsystems. *Topics in Current Chemistry*, **1998**, 1-20		84
64	Microcontact printing with a cylindrical rolling stamp: A practical step toward automatic manufacturing of patterns with submicrometer-sized features. *Advanced Materials*, **1996**, 8, 1015-1017	24	83
63	Use of Electroless Silver as the Substrate in Microcontact Printing of Alkanethiols and Its Application in Microfabrication. *Langmuir*, **1998**, 14, 363-371	4	79
62	Site-Selective Carving and Co-Deposition: Transformation of Ag Nanocubes into Concave Nanocrystals Encased by Au-Ag Alloy Frames. *ACS Nano*, **2018**, 12, 298-307	16.7	73
61	Droplet-based microreactors for continuous production of palladium nanocrystals with controlled sizes and shapes. *Small*, **2013**, 9, 3462-7	11	65
60	Enriching Silver Nanocrystals with a Second Noble Metal. *Accounts of Chemical Research*, **2017**, 50, 1774-1784	14.3	62
59	Gold-Based Cubic Nanoboxes with Well-Defined Openings at the Corners and Ultrathin Walls Less Than Two Nanometers Thick. *ACS Nano*, **2016**, 10, 8019-25	16.7	57
58	Hollow nanocubes made of Ag–Au alloys for SERS detection with sensitivity of 10^{-8} M for melamine. *Journal of Materials Chemistry C*, **2014**, 2, 9934-9940	7.1	56
57	Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Well-Controlled Surface Structures. *Advanced Materials*, **2018**, 30, e1801956	24	53
56	The role of etching in the formation of Ag nanoplates with straight, curved and wavy edges and comparison of their SERS properties. *Small*, **2014**, 10, 1430-7	11	53
55	Nanofabrication at high throughput and low cost. *ACS Nano*, **2010**, 4, 3554-9	16.7	51
54	Collisional deactivation of highly vibrationally excited NO2 monitored by time-resolved Fourier transform infrared emission spectroscopy. *Journal of Chemical Physics*, **1994**, 100, 7832-7835	3.9	50
53	Collisional energy transfer of highly vibrationally excited NO2: The role of intramolecular vibronic coupling and the transition dipole coupling mechanism. *Journal of Chemical Physics*, **1997**, 107, 2890-2902	3.9	49
52	Generation of Hot Spots with Silver Nanocubes for Single-Molecule Detection by Surface-Enhanced Raman Scattering. *Angewandte Chemie*, **2011**, 123, 5587-5591	3.6	48
51	Citrate-free synthesis of silver nanoplates and the mechanistic study. *ACS Applied Materials & Interfaces*, **2013**, 5, 6333-45	9.5	46

50	Intramolecular electronic coupling enhanced collisional deactivation of highly vibrationally excited molecules. *Journal of Chemical Physics*, **1995**, 102, 8677-8680	3.9	46
49	Fabrication of microstructures using shrinkable polystyrene films. *Sensors and Actuators A: Physical*, **1998**, 65, 209-217	3.9	45
48	Rapid prototyping of microstructures by soft lithography for biotechnology. *Methods in Molecular Biology*, **2010**, 583, 81-107	1.4	45
47	Observation of large vibration-to-vibration energy transfer collisions (E?3500 cm1) in quenching of highly excited NO2 by CO2 and N2O. *Journal of Chemical Physics*, **1994**, 101, 8554-8563	3.9	44
46	Fourier transform dispersed fluorescence spectroscopy: Observation of new vibrational levels in the 50008000 cm1 region of a 1A1 CH2. *Journal of Chemical Physics*, **1993**, 98, 2469-2472	3.9	41
45	Photolithography with transparent reflective photomasks. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1998**, 16, 98		40
44	Noble-Metal Nanoframes and Their Catalytic Applications. *Chemical Reviews*, **2021**, 121, 796-833	68.1	40
43	Ag-Enriched Ag-Pd Bimetallic Nanoframes and Their Catalytic Properties. *ChemNanoMat*, **2016**, 2, 494-499	3.5	35
42	Pt-Ag cubic nanocages with wall thickness less than 2 nm and their enhanced catalytic activity toward oxygen reduction. *Nanoscale*, **2017**, 9, 15107-15114	7.7	34
41	Elastomeric optical elements with deformable surface topographies: applications to force measurements, tunable light transmission and light focusing. *Sensors and Actuators A: Physical*, **2000**, 86, 81-85	3.9	34
40	Co-titration of AgNO3 and HAuCl4: a new route to the synthesis of Ag@AgAu core frame nanocubes with enhanced plasmonic and catalytic properties. *Journal of Materials Chemistry C*, **2015**, 3, 11833-11841	7.1	33
39	The role of surface chemistry on the toxicity of ag nanoparticles. *Small*, **2013**, 9, 2628-38	11	31
38	Mechanistic Roles of Hydroxide in Controlling the Deposition of Gold on Colloidal Silver Nanocrystals. *Chemistry of Materials*, **2017**, 29, 4014-4021	9.6	28
37	Elastomeric light valves. *Advanced Materials*, **1997**, 9, 407-410	24	28
36	Formation of patterned microstructures of polycrystalline ceramics from precursor polymers using micromolding in capillaries. *Journal of Materials Research*, **1999**, 14, 3995-4003	2.5	28
35	Rennerteller effect on the highly excited bending levels of a 1A1 CH2. *Journal of Chemical Physics*, **1995**, 102, 6641-6645	3.9	28
34	Syntheses, Plasmonic Properties, and Catalytic Applications of AgRh Core-Frame Nanocubes and Rh Nanoboxes with Highly Porous Walls. *Chemistry of Materials*, **2018**, 30, 2151-2159	9.6	27
33	Observing the Overgrowth of a Second Metal on Silver Cubic Seeds in Solution by Surface-Enhanced Raman Scattering. *ACS Nano*, **2017**, 11, 5080-5086	16.7	25

32	Beam redirection and frequency filtering with transparent elastomeric diffractive elements. *Applied Optics*, **1999**, 38, 2997-3002	1.7	23
31	Facet-selective deposition of Au and Pt on Ag nanocubes for the fabrication of bifunctional Ag@Au-Pt nanocubes and trimetallic nanoboxes. *Nanoscale*, **2018**, 10, 8642-8649	7.7	18
30	A Dual Catalyst with SERS Activity for Probing Stepwise Reduction and Oxidation Reactions. *ChemNanoMat*, **2016**, 2, 786-790	3.5	18
29	Fabrication of polymeric microstructures with high aspect ratios using shrinkable polystyrene films. *Advanced Materials*, **1997**, 9, 251-254	24	17
28	State-to-state rotational energy transfer and reaction with ketene of highly vibrationally excited b 1B1 CH2 by time-resolved Fourier transform emission spectroscopy. *Journal of Chemical Physics*, **1993**, 98, 6906-6916	3.9	17
27	Rational design and synthesis of bifunctional metal nanocrystals for probing catalytic reactions by surface-enhanced Raman scattering. *Journal of Materials Chemistry C*, **2018**, 6, 5353-5362	7.1	16
26	Elastomeric binary phase gratings for measuring acceleration, displacement, strain, and stress. *Review of Scientific Instruments*, **1996**, 67, 3310-3319	1.7	15
25	Gold nanocages for effective photothermal conversion and related applications. *Chemical Science*, **2020**, 11, 12955-12973	9.4	15
24	Silver nanocube on gold microplate as a well-defined and highly active substrate for SERS detection. *Journal of Materials Chemistry C*, **2013**, 1,	7.1	14
23	In Situ Atomic-Level Tracking of Heterogeneous Nucleation in Nanocrystal Growth with an Isocyanide Molecular Probe. *Journal of the American Chemical Society*, **2018**, 140, 8340-8349	16.4	12
22	Facile Synthesis of 64Cu-Doped Au Nanocages for Positron Emission Tomography Imaging. *ChemNanoMat*, **2017**, 3, 44-50	3.5	12
21	V□V Energy Transfer from Highly Vibrationally Excited Molecules through Transition Dipole Coupling: A Quantitative Test on Energy Transfer from SO2 (v >> 0) to SF6(31)□*Journal of Physical Chemistry A*, **2000**, 104, 10460-10463	2.8	12
20	Bifunctional Metal Nanocrystals for Catalyzing and Reporting on Chemical Reactions. *Angewandte Chemie - International Edition*, **2020**, 59, 3782-3792	16.4	12
19	Fabrication of Ag-Pd concave nanocrystals through facet-selective oxidation of Ag atoms. *Nanoscale*, **2019**, 11, 6710-6718	7.7	11
18	Comparative Study of the Adsorption of Thiol and Isocyanide Molecules on a Silver Surface by in Situ Surface-Enhanced Raman Scattering. *Journal of Physical Chemistry C*, **2019**, 123, 21571-21580	3.8	10
17	Strong asymmetry induced □a=3 transitions in the CH2 b 1B1->a 1A1 spectrum: A study by Fourier transform emission spectroscopy. *Journal of Chemical Physics*, **1992**, 97, 7010-7012	3.9	10
16	Bifunctional Ag@SiO2/Au Nanoparticles for Probing Sequential Catalytic Reactions by Surface-Enhanced Raman Spectroscopy. *ChemNanoMat*, **2017**, 3, 245-251	3.5	9
15	HAuCl4: a dual agent for studying the chloride-assisted vertical growth of citrate-free Ag nanoplates with Au serving as a marker. *Langmuir*, **2014**, 30, 15520-30	4	8

14	Orthogonal deposition of Au on different facets of Ag cuboctahedra for the fabrication of nanoboxes with complementary surfaces. *Nanoscale*, **2020**, 12, 372-379	7.7	8
13	Fabrication of Nanoscale Cage Cubes by Drilling Orthogonal, Intersected Holes through All Six Side Faces of Ag Nanocubes. *Chemistry of Materials*, **2019**, 31, 9179-9187	9.6	7
12	Transforming Noble-Metal Nanocrystals into Complex Nanostructures through Facet-Selective Etching and Deposition. *ChemNanoMat*, **2020**, 6, 5-14	3.5	7
11	Defect-Assisted Deposition of Au on Ag for the Fabrication of Core–Shell Nanocubes with Outstanding Chemical and Thermal Stability. *Chemistry of Materials*, **2019**, 31, 1057-1065	9.6	6
10	Generation of Enzymatic Hydrogen Peroxide to Accelerate the Etching of Silver Nanocrystals with Selectivity. *Chemistry of Materials*, **2016**, 28, 7519-7527	9.6	5
9	Revitalizing silver nanocrystals as a redox catalyst by modifying their surface with an isocyanide-based compound. *Chemical Science*, **2020**, 11, 11214-11223	9.4	4
8	Assembly of Nanoparticles into Opaline Structures over Large Areas **1999**, 11, 466		3
7	Understanding the Role of Poly(vinylpyrrolidone) in Stabilizing and Capping Colloidal Silver Nanocrystals. *ACS Nano*, **2021**, 15, 14242-14252	16.7	2
6	Nanotechnology: A Top-Down Approach **2004**, 1-9		1
5	Preserving the shape of silver nanocubes under corrosive environment by covering their edges and corners with iridium. *Nanoscale*, **2020**, 12, 20859-20867	7.7	1
4	Biomimetic Scaffolds with a Mineral Gradient and Funnel-Shaped Channels for Spatially Controllable Osteogenesis. *Advanced Healthcare Materials*, **2021**, e2100828	10.1	1
3	Crystallization of Mesoscale Particles over Large Areas **1998**, 10, 1028		1
2	Crystallization of Mesoscale Particles over Large Areas **1998**, 10, 1028		1
1	Bifunctional Metal Nanocrystals for Catalyzing and Reporting on Chemical Reactions. *Angewandte Chemie*, **2020**, 132, 3810-3820	3.6	0