

# Jun Xu

## 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.

75  
papers

5,358  
citations

28  
h-index

73  
g-index

80  
ext. papers

6,121  
ext. citations

10.3  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
75	Carbene-catalyzed atroposelective synthesis of axially chiral styrenes.. <i>Nature Communications</i> , <b>2022</b> , 13, 84	17.4	5
74	Enhancing polysulfide confinement and conversion in meso-/microporous core/shelled MoC/NC microspheres for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 26051-26060	13	2
73	Engineering of Amorphous PtOx Interface on Pt/WO3 Nanosheets for Ethanol Oxidation Electrocatalysis. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100982	15.6	15
72	Electron Matters: Recent Advances in Passivation and Applications of Black Phosphorus. <i>Advanced Materials</i> , <b>2021</b> , e2005924	24	9
71	Reduced Ti-MOFs encapsulated black phosphorus with high stability and enhanced photocatalytic activity. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 53, 185-191	12	13
70	Carbene-catalyzed selective addition of isothioureas to enals for access to sulphur-containing 5,6-dihydropyrimidin-4-ones. <i>Organic Chemistry Frontiers</i> , <b>2021</b> , 8, 743-747	5.2	7
69	Conjugated polymer coating enabled light-resistant black phosphorus with enhanced stability. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 5650-5655	5.1	
68	Carbene-Catalyzed Activation of Remote Nitrogen Atoms of (Benz)imidazole-Derived Aldimines for Enantioselective Synthesis of Heterocycles. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7985-7991	3.6	2
67	Carbene-Catalyzed Activation of Remote Nitrogen Atoms of (Benz)imidazole-Derived Aldimines for Enantioselective Synthesis of Heterocycles. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7906-7912	16.4	7
66	Carbene-Catalyzed Alkylation of Carboxylic Esters via Direct Photoexcitation of Acyl Azolium Intermediates. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2925-2934	13.1	25
65	Stable Radicals with Protective Umbrellas Integrated on the Surface of 2D Layered Materials. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104246	15.6	2
64	Palladium Phosphide/Black Phosphorus Heterostructures with Enhanced Ethanol Oxidation Activity and Stability. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 18717-18724	3.8	2
63	Mo2C/C Hierarchical Double-Shelled Hollow Spheres as Sulfur Host for Advanced Li-S Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 21682-21690	3.6	6
62	Mo C/C Hierarchical Double-Shelled Hollow Spheres as Sulfur Host for Advanced Li-S Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 21512-21520	16.4	17
61	Polyaniline Encapsulated Amorphous V O Nanowire-Modified Multi-Functional Separators for Lithium-Sulfur Batteries.. <i>Small Methods</i> , <b>2021</b> , 5, e2001056	12.8	15
60	The Art of Integrated Functionalization: Super Stable Black Phosphorus Achieved through Metal-Organic Framework Coating. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002232	15.6	32
59	Ultrasensitive colorimetric biosensor for BRCA1 mutation based on multiple signal amplification strategy. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 166, 112424	11.8	13

58	Carbene-Catalyzed $\beta$ -Deuteration of Enals under Oxidative Conditions. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5475-5482	3.1	13
57	2D Mesoporous Nanomesh from N-Doped Carbon-Encapsulated V <sub>2</sub> O <sub>3</sub> Nanowires as an Anode for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 24073-24080	3.8	9
56	Regulating the reactivity of black phosphorus via protective chemistry. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	11
55	Adaptive Bifunctional Electrocatalyst of Amorphous CoFe Oxide @ 2D Black Phosphorus for Overall Water Splitting. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21292-21299	3.6	8
54	Adaptive Bifunctional Electrocatalyst of Amorphous CoFe Oxide @ 2D Black Phosphorus for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 21106-21113	16.4	69
53	Ultra-large optical modulation of a size-tunable flexible electrochromic honeycomb mesoporous tungsten oxide film. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 680-686	6.8	6
52	A general approach for encapsulating nanoparticles by polystyrene-block-poly(acrylic acid) shell in colloidal. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 135, 109019	3.9	2
51	Facile synthesis of ultrathin PtPd nanosheets for enhanced formic acid oxidation and oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18846-18851	13	52
50	Robust Amphiphobic Few-Layer Black Phosphorus Nanosheet with Improved Stability. <i>Advanced Science</i> , <b>2019</b> , 6, 1901991	13.6	22
49	Oxidant-templating fabrication of pure polypyrrole hydrogel beads as a highly efficient dye adsorbent.. <i>RSC Advances</i> , <b>2019</b> , 9, 5895-5900	3.7	5
48	Synthesis of hierarchical lamellar Co <sub>3</sub> O <sub>4</sub> /CoMoO <sub>4</sub> heterostructures for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26884-26892	13	18
47	Twisting Ultrathin Au Nanowires into Double Helices. <i>Small</i> , <b>2018</b> , 14, e1801925	11	13
46	Ultrathin AuAg Nanofilms from Ice-Templated Assembly of AuAg Nanowires. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800256	4.6	5
45	Nanocombing Effect Leads to Nanowire-Based, in-Plane, Uniaxial Thin Films. <i>ACS Nano</i> , <b>2018</b> , 12, 12701-12712	12.6	6
44	Sensitive Detection of Carcinoembryonic Antigen Using Stability-Limited Few-Layer Black Phosphorus as an Electron Donor and a Reservoir. <i>Small</i> , <b>2017</b> , 13, 1603589	11	102
43	Assembly of Ultrathin Gold Nanowires: From Polymer Analogue to Colloidal Block. <i>ACS Nano</i> , <b>2017</b> , 11, 2756-2763	16.7	19
42	Colorimetric Biosensor for Detection of Cancer Biomarker by Au Nanoparticle-Decorated BiSe Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6931-6940	9.5	87
41	Assembly of Ultrathin Gold Nanowires into Honeycomb Macroporous Pattern Films with High Transparency and Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7826-7833	9.5	20

40	Crystalline phase and morphology controlling to enhance the up-conversion emission from NaYF <sub>4</sub> :Yb,Er nanocrystals. <i>Acta Materialia</i> , <b>2017</b> , 131, 373-379	8.4	21
39	Interlayer Nanoarchitectonics of Two-Dimensional Transition-Metal Dichalcogenides Nanosheets for Energy Storage and Conversion Applications. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700571	21.8	209
38	Energy transfer to enhance the characteristics emission from lanthanide-doped nanocrystals. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 864, 012067	0.3	1
37	Synthesis of hybrid nanocomposites of ZIF-8 with two-dimensional black phosphorus for photocatalysis. <i>RSC Advances</i> , <b>2016</b> , 6, 69033-69039	3.7	55
36	Enhanced up-conversion luminescence from NaYF <sub>4</sub> :Yb,Er nanocrystals by Gd <sup>3+</sup> ions induced phase transformation and plasmonic Au nanosphere arrays. <i>RSC Advances</i> , <b>2016</b> , 6, 102869-102874	3.7	17
35	Ligand-triggered electrostatic self-assembly of CdS nanosheet/Au nanocrystal nanocomposites for versatile photocatalytic redox applications. <i>Nanoscale</i> , <b>2016</b> , 8, 19161-19173	7.7	21
34	Unconventional synthesis of Cu <sub>2</sub> Au dendritic nanowires with enhanced electrochemical activity. <i>RSC Advances</i> , <b>2016</b> , 6, 2464-2469	3.7	7
33	3D nano-macroporous structured TiO <sub>2</sub> -foam glass as an efficient photocatalyst for organic pollutant treatment. <i>RSC Advances</i> , <b>2016</b> , 6, 51888-51893	3.7	7
32	Encapsulation of Au Nanoparticles by Poly(4-Vinylpyridine)-Block-Polystyrene-Block-Poly(4-Vinylpyridine) for Controlled Chain Assembly. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2015</b> , 25, 153-158	3.2	4
31	Structural instability and mechanical properties of MoS <sub>2</sub> toroidal nanostructures. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 32425-35	3.6	10
30	Efficient visible and near-infrared photoluminescent attapulgite-based lanthanide one-dimensional nanomaterials assembled by ion-pairing interactions. <i>Dalton Transactions</i> , <b>2014</b> , 43, 7903-10	4.3	17
29	General methodology of using oil-in-water and water-in-oil emulsions for coiling nanofilaments. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 835-43	16.4	45
28	Emerging chirality in nanoscience. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 2930-62	58.5	391
27	Fixed-component lanthanide-hybrid-fabricated full-color photoluminescent films as vapoluminescent sensors. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 4556-62	4.8	45
26	Fluorinated Eu-Doped SnO <sub>2</sub> Nanostructures with Simultaneous Phase and Shape Control and Improved Photoluminescence. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 332-337	3.1	8
25	Preservation of Lattice Orientation in Coalescing Imperfectly Aligned Gold Nanowires by a Zipper Mechanism. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6135-6139	3.6	4
24	Preservation of lattice orientation in coalescing imperfectly aligned gold nanowires by a zipper mechanism. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 6019-23	16.4	34
23	Synthesis and room temperature four-state memory prototype of Sr <sub>3</sub> Co <sub>2</sub> Fe <sub>24</sub> O <sub>41</sub> multiferroics. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 122903	3.4	40

22	Controlling reversible elastic deformation of carbon nanotube rings. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 9654-7	16.4	43
21	Planar macrocyclic fluoropentamers as supramolecular organogelators. <i>Organic Letters</i> , <b>2011</b> , 13, 3840-36.2		53
20	Partially inverse spinel ZnFe <sub>2</sub> O <sub>4</sub> with high saturation magnetization synthesized via a molten salt route. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 202505	3.4	28
19	Visible light sensitized attapulgite-based lanthanide composites: microstructure, photophysical behaviour and biological application. <i>Dalton Transactions</i> , <b>2011</b> , 40, 12909-16	4.3	30
18	Preparation, crystal structures and luminescent properties of terbium and europium complexes with a new amino-alkenone type ligand. <i>Journal of Fluorescence</i> , <b>2011</b> , 21, 35-42	2.4	10
17	Toroidal micelles of polystyrene- block -poly(acrylic acid). <i>Small</i> , <b>2011</b> , 7, 2721-6	11	54
16	Triple-Layer (Au@Perylene)@Polyaniline Nanocomposite: Unconventional Growth of Faceted Organic Nanocrystals on Polycrystalline Au. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 10072-10076	3.6	7
15	Triple-layer (au@perylene)@polyaniline nanocomposite: unconventional growth of faceted organic nanocrystals on polycrystalline Au. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9898-902	16.4	55
14	Simultaneous phase and size control of upconversion nanocrystals through lanthanide doping. <i>Nature</i> , <b>2010</b> , 463, 1061-5	50.4	2560
13	Tunable Upconversion Emissions from Lanthanide-doped Monodisperse $\text{NaYF}_4$ Nanoparticles. <i>Spectroscopy Letters</i> , <b>2010</b> , 43, 400-405	1.1	45
12	Measuring ensemble-averaged surface-enhanced Raman scattering in the hotspots of colloidal nanoparticle dimers and trimers. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 3644-5	16.4	354
11	Reducing the symmetry of bimetallic Au@Ag nanoparticles by exploiting eccentric polymer shells. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9537-9	16.4	117
10	Probing the kinetics of ligand exchange on colloidal gold nanoparticles by surface-enhanced Raman scattering. <i>Dalton Transactions</i> , <b>2010</b> , 349-51	4.3	31
9	Mechanical nanosprings: induced coiling and uncoiling of ultrathin Au nanowires. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11920-2	16.4	92
8	Probing the Kinetics of Short-Distance Drug Release from Nanocarriers to Nanoacceptors. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 8604-8608	3.6	6
7	Probing the kinetics of short-distance drug release from nanocarriers to nanoacceptors. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8426-30	16.4	35
6	Lanthanide-doped LiYF <sub>4</sub> nanoparticles: Synthesis and multicolor upconversion tuning. <i>Comptes Rendus Chimie</i> , <b>2010</b> , 13, 731-736	2.7	105
5	Non-spherical racemic polylactide microarchitectures formation via solvent evaporation method. <i>Polymer</i> , <b>2009</b> , 50, 3841-3850	3.9	16

4	Hydrothermal Syntheses of Gold Nanocrystals: From Icosahedral to Its Truncated Form. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 277-284	15.6	98
3	Formation of poly(L,D-lactide) spheres with controlled size by direct dialysis. <i>Polymer</i> , <b>2007</b> , 48, 5767-5779	39	33
2	Enantioselective modification of sulfonamides and sulfonamide-containing drugs via carbene organic catalysis. <i>Organic Chemistry Frontiers</i> ,	5.2	1
1	Amorphous alloys for electrocatalysis: The significant role of the amorphous alloy structure. <i>Nano Research</i> , <sup>1</sup>	10	8