

# Xian Qin

## List of Publications by Year in descending order

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40  
papers

3,335  
citations

257450

24  
h-index

315739

38  
g-index

42  
all docs

42  
docs citations

42  
times ranked

3492  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. <i>Chemical Reviews</i> , 2017, 117, 4488-4527.	47.7	702
2	High-resolution X-ray luminescence extension imaging. <i>Nature</i> , 2021, 590, 410-415.	27.8	378
3	Rare-Earth Doping in Nanostructured Inorganic Materials. <i>Chemical Reviews</i> , 2022, 122, 5519-5603.	47.7	338
4	Instantaneous ballistic velocity of suspended Brownian nanocrystals measured by upconversion nanothermometry. <i>Nature Nanotechnology</i> , 2016, 11, 851-856.	31.5	292
5	Three-dimensional controlled growth of monodisperse sub-50-nm heterogeneous nanocrystals. <i>Nature Communications</i> , 2016, 7, 10254.	12.8	267
6	Multicolour synthesis in lanthanide-doped nanocrystals through cation exchange in water. <i>Nature Communications</i> , 2016, 7, 13059.	12.8	164
7	Energy-Transfer Editing in Lanthanide-Activated Upconversion Nanocrystals: A Toolbox for Emerging Applications. <i>ACS Central Science</i> , 2019, 5, 29-42.	11.3	127
8	Lanthanide-Activated Nanoparticles: A Toolbox for Bioimaging, Therapeutics, and Neuromodulation. <i>Accounts of Chemical Research</i> , 2020, 53, 2692-2704.	15.6	123
9	Polarization-sensitive optoionic membranes from chiral plasmonic nanoparticles. <i>Nature Nanotechnology</i> , 2022, 17, 408-416.	31.5	83
10	Energy Flux Manipulation in Upconversion Nanosystems. <i>Accounts of Chemical Research</i> , 2019, 52, 228-236.	15.6	82
11	Anomalous upconversion amplification induced by surface reconstruction in lanthanide sublattices. <i>Nature Photonics</i> , 2021, 15, 732-737.	31.4	77
12	Effects of Stone-Wales defect upon adsorption of formaldehyde on graphene sheet with or without Al dopant: A first principle study. <i>Surface Science</i> , 2011, 605, 930-933.	1.9	76
13	Energy Migration Upconversion in Manganese(II)-Doped Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13312-13317.	13.8	64
14	Graphene with line defect as a membrane for gas separation: Design via a first-principles modeling. <i>Surface Science</i> , 2013, 607, 153-158.	1.9	55
15	Surface Plasmon-Photon Coupling in Lanthanide-Doped Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1520-1541.	4.6	52
16	Continuous-wave near-infrared stimulated-emission depletion microscopy using downshifting lanthanide nanoparticles. <i>Nature Nanotechnology</i> , 2021, 16, 975-980.	31.5	50
17	Localized Electrons Enhanced Ion Transport for Ultrafast Electrochemical Energy Storage. <i>Advanced Materials</i> , 2020, 32, e1905578.	21.0	39
18	Hedgehog-Like Upconversion Crystals: Controlled Growth and Molecular Sensing at Single-Particle Level. <i>Advanced Materials</i> , 2017, 29, 1702315.	21.0	38

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19	Photon upconversion through triplet exciton-mediated energy relay. <i>Nature Communications</i> , 2021, 12, 3704.	12.8	38
20	Dynamic upconversion multicolour editing enabled by molecule-assisted opto-electrochemical modulation. <i>Nature Communications</i> , 2021, 12, 2022.	12.8	36
21	Multimodal Tuning of Synaptic Plasticity Using Persistent Luminescent Memitters. <i>Advanced Materials</i> , 2022, 34, e2101895.	21.0	31
22	Suppression of Defect-Induced Quenching via Chemical Potential Tuning: A Theoretical Solution for Enhancing Lanthanide Luminescence. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11151-11161.	3.1	26
23	Tuning Long-Lived Mn(II) Upconversion Luminescence through Alkaline-Earth Metal Doping and Energy-Level Tailoring. <i>Advanced Optical Materials</i> , 2019, 7, 1900519.	7.3	24
24	Designing Sub-20-nm Organosilica Nanohybrids for Far-Field Super-Resolution Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 746-751.	13.8	19
25	Oxidative Sulfonylation of Hydrazones Enabled by Synergistic Copper/Silver Catalysis. <i>Journal of Organic Chemistry</i> , 2021, 86, 3706-3720.	3.2	19
26	“Orange alert”: A fluorescent detector for bisphenol A in water environments. <i>Analytica Chimica Acta</i> , 2014, 815, 51-56.	5.4	18
27	Outstanding Piezoelectric Performance in Lead-Free $0.95(\text{K},\text{Na})(\text{Sb},\text{Nb})\text{O}_3 \cdot 0.05(\text{Bi},\text{Na},\text{K})\text{ZrO}_3$ Thick Films with Oriented Nanophase Coexistence. <i>Advanced Electronic Materials</i> , 2019, 5, 1800691.	5.1	18
28	High Piezoelectric Performance and Phase Transition in Stressed Lead-Free $(1-x)(\text{K},\text{Na})(\text{Sb},\text{Tl})\text{ETQO}_0.0\text{rgBT}/\text{Overlock}103$ , 1700033.	5.1	15
29	Toxicity assessment and mechanistic investigation of engineered monoclinic $\text{VO}_2$ nanoparticles. <i>Nanoscale</i> , 2018, 10, 9736-9746.	5.6	14
30	Decoding a Percolation Phase Transition of Water at $\sim 330$ K with a Nanoparticle Ruler. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6704-6711.	4.6	13
31	Straight, bendable and bent organic crystals. <i>Chemical Communications</i> , 2019, 55, 14749-14752.	4.1	8
32	Investigation of the thermal-transport properties for silicon nanofilm covered with graphene via nonequilibrium molecular dynamics. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1728-1734.	1.5	6
33	First-principles calculations of strain engineering in $\text{NaYF}_4$ -based nanocrystals with hydroxyl impurities. <i>Nanoscale</i> , 2021, 13, 19561-19567.	5.6	6
34	STRAIN EFFECTS ON ENHANCED HYDROGEN SULPHIDE DETECTION CAPABILITY OF Ag-DECORATED DEFECTIVE GRAPHENE: A FIRST-PRINCIPLES INVESTIGATION. <i>Modern Physics Letters B</i> , 2012, 26, 1250166.	1.9	5
35	Piezoelectric Films: Outstanding Piezoelectric Performance in Lead-Free $0.95(\text{K},\text{Na})(\text{Sb},\text{Nb})\text{O}_3 \cdot 0.05(\text{Bi},\text{Na},\text{K})\text{ZrO}_3$ Thick Films with Oriented Nanophase Coexistence ( <i>Adv. Electron. Mater.</i> 4/2019). <i>Advanced Electronic Materials</i> , 2019, 5, 1970020.	5.1	3
36	Designing Sub-20-nm Organosilica Nanohybrids for Far-Field Super-Resolution Imaging. <i>Angewandte Chemie</i> , 2020, 132, 756-761.	2.0	3

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37	Atomistic Simulations of Heat Transport in Carbon Nanotubes Effected by Temperature and Stretch Strain. <i>Advanced Materials Research</i> , 2011, 320, 38-44.	0.3	1
38	Ag Supported Si-Doped Graphene for Hydrogen Sulphide Detection: A First-Principles Investigation. <i>Advanced Materials Research</i> , 0, 602-604, 37-40.	0.3	1
39	Composition-dependent mechanical and thermal transport properties of carbon/silicon core/shell nanowires. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2012, 17, 743-747.	0.9	0
40	Piezoelectrics: High Piezoelectric Performance and Phase Transition in Stressed Lead-Free (1- $x$ ) $\text{Ti}(\text{Zr}_{1-x}\text{Sn}_x)_2\text{O}_7$ / Overlock 10 Tf 50	5.1	0