

# Xiang-Hua Kong

## List of Publications by Year in descending order

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27  
papers

4,553  
citations

567144

15  
h-index

552653

26  
g-index

28  
all docs

28  
docs citations

28  
times ranked

7083  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-mobility transport anisotropy and linear dichroism in few-layer black phosphorus. <i>Nature Communications</i> , 2014, 5, 4475.	5.8	3,568
2	Interlayer electronic hybridization leads to exceptional thickness-dependent vibrational properties in few-layer black phosphorus. <i>Nanoscale</i> , 2016, 8, 2740-2750.	2.8	153
3	Atomic-Scale Origin of Long-Term Stability and High Performance of $\text{p-CaN}$ Nanowire Arrays for Photocatalytic Overall Pure Water Splitting. <i>Advanced Materials</i> , 2016, 28, 8388-8397.	11.1	106
4	Layer and doping tunable ferromagnetic order in two-dimensional $\text{CrS}_2$ layers. <i>Physical Review B</i> , 2018, 97, .	1.1	96
5	Gallium nitride nanowire as a linker of molybdenum sulfides and silicon for photoelectrocatalytic water splitting. <i>Nature Communications</i> , 2018, 9, 3856.	5.8	87
6	Systematic search for two-dimensional ferromagnetic materials. <i>Physical Review Materials</i> , 2018, 2, .	0.9	81
7	A GaN:Sn nanoarchitecture integrated on a silicon platform for converting $\text{CO}_2$ to HCOOH by photoelectrocatalysis. <i>Energy and Environmental Science</i> , 2019, 12, 2842-2848.	15.6	75
8	Epitaxial Synthesis of Monolayer $\text{PtSe}_2$ Single Crystal on $\text{MoSe}_2$ with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019, 13, 10929-10938.	7.3	72
9	Moiré impurities in twisted bilayer black phosphorus: Effects on the carrier mobility. <i>Physical Review B</i> , 2017, 96, .	1.1	55
10	Direct Catalytic Methanol-to-Ethanol Photo-conversion via Methyl Carbene. <i>CheM</i> , 2019, 5, 858-867.	5.8	43
11	Piezoelectric scattering limited mobility of hybrid organic-inorganic perovskites $\text{CH}_3\text{NH}_3\text{PbI}_3$ . <i>Scientific Reports</i> , 2017, 7, 41860.	1.6	31
12	Charge-governed phase manipulation of few-layer tellurium. <i>Nanoscale</i> , 2018, 10, 22263-22269.	2.8	28
13	Fluorine-Induced Surface Metallization for Ammonia Synthesis under Photoexcitation up to 1550 nm. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11173-11179.	7.2	21
14	Efficient Nitrogen Fixation Catalyzed by Gallium Nitride Nanowire Using Nitrogen and Water. <i>IScience</i> , 2019, 17, 208-216.	1.9	16
15	Surface stabilized cubic phase of $\text{CsPbI}_3$ and $\text{CsPbBr}_3$ at room temperature*. <i>Chinese Physics B</i> , 2019, 28, 056402.	0.7	16
16	A topologically substituted boron nitride hybrid aerogel for highly selective $\text{CO}_2$ uptake. <i>Nano Research</i> , 2018, 11, 6325-6335.	5.8	14
17	Control of Unipolar/Ambipolar Transport in Single-Molecule Transistors through Interface Engineering. <i>Advanced Electronic Materials</i> , 2020, 6, 1901237.	2.6	14
18	Strain- and twist-engineered optical absorption of few-layer black phosphorus. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016, 59, 1.	2.0	12

#	ARTICLE	IF	CITATIONS
19	Anisotropic Carrier Mobility from 2H WSe <sub>2</sub> . <i>Advanced Materials</i> , 2022, 34, e2108615.	11.1	11
20	Artificial Photosynthesis on III-Nitride Nanowire Arrays. <i>Semiconductors and Semimetals</i> , 2017, 97, 223-255.	0.4	10
21	Dirac electrons in Moiré superlattice: From two to three dimensions. <i>Physical Review Materials</i> , 2017, 1, .	0.9	9
22	Electronic structure of aqueous two-dimensional photocatalyst. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	8
23	Coherent charge-phonon correlations and exciton dynamics in orthorhombic CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> measured by ultrafast multi-THz spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, 214201.	1.2	6
24	Negative differential resistance in GeSi core-shell transport junctions: the role of local sp <sup>2</sup> hybridization. <i>Nanoscale</i> , 2016, 8, 16026-16033.	2.8	3
25	Nanoscale Structural and Emission Properties within $\alpha$ -Type InGaN/AlGaIn Quantum Wells. <i>Advanced Optical Materials</i> , 2020, 8, 2000481.	3.6	3
26	Quasi-One-Dimensional Free-Electron-Like States Selected by Intermolecular Hydrogen Bonds at the Glycine/Cu(100) Interface*. <i>Chinese Physics Letters</i> , 2020, 37, 117301.	1.3	0
27	Fluorine-Induced Surface Metallization for Ammonia Synthesis under Photoexcitation up to 1550 nm. <i>Angewandte Chemie</i> , 2021, 133, 11273-11279.	1.6	0