

# Qian Chen

## List of Publications by Year in descending order

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76  
papers

5,784  
citations

182225

30  
h-index

90395

73  
g-index

78  
all docs

78  
docs citations

78  
times ranked

11482  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite time observer-based super-twisting sliding mode control for vehicle platoons with guaranteed strong string stability. IET Intelligent Transport Systems, 2022, 16, 1726-1737. Programmable Gilbert Damping in Py $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Cu} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$	1.7	7
2	- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"} \rangle \langle \text{mml:mi} \rangle \text{Co} \langle \text{mml:math} \rangle$ - $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"} \rangle \langle \text{mml:mi} \rangle \text{Tb} \langle \text{mml:math} \rangle$	1.5	2
3	Formation of Graphene Nanoscrolls and Their Electronic Structures Based on <i>Ab Initio</i> Calculations. Journal of Physical Chemistry Letters, 2022, 13, 2500-2506.	2.1	3
4	Magnetic Anisotropy and Jahn-Teller Effect in Ferromagnetic Two-Dimensional $\text{CrGa}_2\text{Te}_4$ . ACS Applied Electronic Materials, 2022, 4, 3220-3225. Mechanical and electronic properties of	2.0	2
5	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{I} \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \rangle \hat{a} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{M} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \rangle$ Tj ETQq1,1 0.784314 rgBT 17	1.1	17
6	Effective tuning of spin mixing conductance at the Py/Cu-Nd interface. Applied Physics Letters, 2022, 120, . monolayers. Physical Review B, 2022, 105, .	1.5	4
7	Spin Dynamic Damping of Py Induced by Gd Capping. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	3
8	Proximity effect of a two-dimensional van der Waals magnet $\text{Fe}_3\text{GeTe}_2$ on nickel films. Nanoscale, 2021, 13, 14688-14693.	2.8	7
9	Large spin-orbit torque efficiency in PtBi <sub>2</sub> film. Applied Physics Letters, 2021, 119, 132402.	1.5	0
10	Two dimensional $\text{CrGa}_2\text{Se}_4$ : a spin-gapless ferromagnetic semiconductor with inclined uniaxial anisotropy. Nanoscale, 2021, 13, 6024-6029.	2.8	17
11	Boosting the photocatalytic activity of CdLa <sub>2</sub> S <sub>4</sub> for hydrogen production using Ti <sub>3</sub> C <sub>2</sub> MXene as a co-catalyst. Applied Catalysis B: Environmental, 2020, 267, 118379.	10.8	135
12	Blue phosphorus nanoscrolls. Physical Review B, 2020, 102, .	1.1	5
13	Electronic and Magnetic Properties of a Two-Dimensional Transition Metal Phosphorous Chalcogenide $\text{TMPS}_4$ . Journal of Physical Chemistry C, 2020, 124, 12075-12080.	1.5	22
14	Treating Acute Kidney Injury with Antioxidative Black Phosphorus Nanosheets. Nano Letters, 2020, 20, 1447-1454.	4.5	111
15	Integrin-linked kinase improves uterine receptivity formation by activating Wnt/ $\beta$ -catenin signaling and up-regulating MMP-3/9 expression. American Journal of Translational Research (discontinued), 2020, 12, 3011-3022.	0.0	2
16	Ta/Cu $\times$ Ndx/NiFe/Ta Layers Characterized Using TEM/Microanalysis Techniques. Microscopy and Microanalysis, 2019, 25, 756-757.	0.2	0
17	Photo-oxidative degradation of methylammonium lead iodide perovskite: mechanism and protection. Journal of Materials Chemistry A, 2019, 7, 2275-2282.	5.2	105
18	Recent advances in oxidation and degradation mechanisms of ultrathin 2D materials under ambient conditions and their passivation strategies. Journal of Materials Chemistry A, 2019, 7, 4291-4312.	5.2	158

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19	Effect of Dilute Rare-Earth Doping on Magnetodynamic Properties of Permalloy Films. <i>IEEE Magnetics Letters</i> , 2019, 10, 1-5.	0.6	8
20	Forming Atomâ€“Vacancy Interface on the MoS <sub>2</sub> Catalyst for Efficient Hydrodeoxygenation Reactions. <i>Small Methods</i> , 2019, 3, 1800315.	4.6	23
21	Ab initio understanding of magnetic properties in Zn <sup>2+</sup> substitution of Fe <sub>3</sub> O <sub>4</sub> ultra-thin film with dilute Zn substitution. <i>AIP Advances</i> , 2018, 8, .	0.6	4
22	Surface Vacancy-Induced Switchable Electric Polarization and Enhanced Ferromagnetism in Monolayer Metal Trihalides. <i>Nano Letters</i> , 2018, 18, 2943-2949.	4.5	157
23	Investigation of magnetization dynamics damping in Ni <sub>80</sub> Fe <sub>20</sub> /Nd-Cu bilayer at room temperature. <i>AIP Advances</i> , 2018, 8, .	0.6	5
24	On-surface synthesis: a promising strategy toward the encapsulation of air unstable ultra-thin 2D materials. <i>Nanoscale</i> , 2018, 10, 3799-3804.	2.8	18
25	Comparison of clinical outcomes among dual ovarian stimulation, mild stimulation and luteal phase stimulation protocols in women with poor ovarian response. <i>Gynecological Endocrinology</i> , 2018, 34, 694-697.	0.7	24
26	Enhanced Stability of Black Phosphorus Fieldâ€“Effect Transistors via Hydrogen Treatment. <i>Advanced Electronic Materials</i> , 2018, 4, 1700455.	2.6	19
27	Highly Promoted Carrier Mobility and Intrinsic Stability by Rolling Up Monolayer Black Phosphorus into Nanoscrolls. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6847-6852.	2.1	20
28	Robust Half-Metallic Magnetism in Two-Dimensional Fe/MoS <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2018, 122, 21617-21622.	1.5	18
29	Air molecules in XPbI <sub>3</sub> (X=MA, FA, Cs) perovskite: A degradation mechanism based on first-principles calculations. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	15
30	Template-Grown MoS <sub>2</sub> Nanowires Catalyze the Hydrogen Evolution Reaction: Ultralow Kinetic Barriers with High Active Site Density. <i>ACS Catalysis</i> , 2017, 7, 5097-5102.	5.5	78
31	Band-edge engineering via molecule intercalation: a new strategy to improve stability of few-layer black phosphorus. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29232-29236.	1.3	10
32	Prediction of a room-temperature eight-coordinate two-dimensional topological insulator: penta-RuS <sub>4</sub> monolayer. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	3.9	18
33	Towards a Comprehensive Understanding of the Reaction Mechanisms Between Defective MoS <sub>2</sub> and Thiol Molecules. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10501-10505.	7.2	88
34	Towards a Comprehensive Understanding of the Reaction Mechanisms Between Defective MoS <sub>2</sub> and Thiol Molecules. <i>Angewandte Chemie</i> , 2017, 129, 10637-10641.	1.6	4
35	Making graphene nanoribbons: a theoretical exploration. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016, 6, 243-254.	6.2	13
36	Teâ€“Doped Black Phosphorus Fieldâ€“Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 9408-9415.	11.1	241

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37	Versatile Titanium Silicide Monolayers with Prominent Ferromagnetic, Catalytic, and Superconducting Properties: Theoretical Prediction. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3723-3729.	2.1	28
38	Enhancing the Spin-Orbit Coupling in Fe <sub>3</sub> O <sub>4</sub> Epitaxial Thin Films by Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27353-27359.	4.0	20
39	Transition Metal-Promoted V <sub>2</sub> CO <sub>2</sub> (MXenes): A New and Highly Active Catalyst for Hydrogen Evolution Reaction. <i>Advanced Science</i> , 2016, 3, 1600180.	5.6	279
40	Light-Induced Ambient Degradation of Few-Layer Black Phosphorus: Mechanism and Protection. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11437-11441.	7.2	514
41	Light-Induced Ambient Degradation of Few-Layer Black Phosphorus: Mechanism and Protection. <i>Angewandte Chemie</i> , 2016, 128, 11609-11613.	1.6	78
42	An atomically thin layer of Ru/MoS <sub>2</sub> heterostructure: structural, electronic, and magnetic properties. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32528-32533.	1.3	10
43	Covalent Functionalization of Black Phosphorus from First-Principles. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4540-4546.	2.1	71
44	Activating Inert Basal Planes of MoS <sub>2</sub> for Hydrogen Evolution Reaction through the Formation of Different Intrinsic Defects. <i>Chemistry of Materials</i> , 2016, 28, 4390-4396.	3.2	388
45	Extensive theoretical studies on the low-lying electronic states of BBr <sub>4</sub> <sup>+</sup> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 159, 60-67.	2.0	1
46	Structure and Spin-Polarized Transport of Co Atomic Chains on Graphene with Topological Line Defects. <i>Journal of Cluster Science</i> , 2016, 27, 875-882.	1.7	3
47	Rational Hydrogenation for Enhanced Mobility and High Reliability on ZnO-based Thin Film Transistors: From Simulation to Experiment. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5408-5415.	4.0	30
48	Probing the Buried Magnetic Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5752-5757.	4.0	8
49	Electronic Structure of Twisted Bilayers of Graphene/MoS <sub>2</sub> and MoS <sub>2</sub> /MoS <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2015, 119, 4752-4758.	1.5	131
50	Interstitial H <sup>+</sup> -Mediated Ferromagnetism in Co-Doped ZnS. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1389-1393.	0.8	7
51	Oxygen vacancy induced magnetization switching in Fe <sub>3</sub> O <sub>4</sub> epitaxial ultrathin films on GaAs(100). <i>Applied Physics Letters</i> , 2015, 106, .	1.5	17
52	Molecular Self-Assembly on Two-Dimensional Atomic Crystals: Insights from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4518-4524.	2.1	43
53	Optical responses of magnetic-vortex resonance in double-disk metamaterial variations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1871-1875.	0.9	11
54	Polarization conversions of linearly and circularly polarized lights through a plasmon-induced transparent metasurface. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	17

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55	Topological transport and atomic tunnellingâ€“clustering dynamics for aged Cu-doped Bi <sub>2</sub> Te <sub>3</sub> crystals. Nature Communications, 2014, 5, 5022.	5.8	60
56	Band structure engineering of monolayer MoS <sub>2</sub> by surface ligand functionalization for enhanced photoelectrochemical hydrogen production activity. Nanoscale, 2014, 6, 13565-13571.	2.8	62
57	Uniformly Wetting Deposition of Co Atoms on MoS <sub>2</sub> Monolayer: A Promising Two-Dimensional Robust Half-Metallic Ferromagnet. ACS Applied Materials & Interfaces, 2014, 6, 16835-16840.	4.0	57
58	Band Structure Engineering of ZnO by Anionâ€“Cation Co-Doping for Enhanced Photoâ€“Electrochemical Activity. ChemPhysChem, 2014, 15, 1611-1618.	1.0	29
59	Strong Photoluminescence Enhancement of MoS <sub>2</sub> through Defect Engineering and Oxygen Bonding. ACS Nano, 2014, 8, 5738-5745.	7.3	995
60	Ferromagnetism in Nd-doped ZnO nanowires and the influence of oxygen vacancies: ab initio calculations. Physical Chemistry Chemical Physics, 2013, 15, 17793.	1.3	18
61	Hopping transport through defect-induced localized states in molybdenum disulphide. Nature Communications, 2013, 4, 2642.	5.8	935
62	Magnetism and stability of noncompensated anion-cation codoped ZnO. Journal of Applied Physics, 2013, 113, .	1.1	11
63	Tunable band gap of AlN, GaN nanoribbons and AlN/GaN nanoribbon heterojunctions: A first-principle study. Solid State Communications, 2013, 172, 24-28.	0.9	26
64	Band structure engineering of TiO <sub>2</sub> nanowires by nâ€“p codoping for enhanced visible-light photoelectrochemical water-splitting. Physical Chemistry Chemical Physics, 2013, 15, 18523.	1.3	38
65	Theoretical investigations on structural, electronic, and magnetic properties of TM <sub>2</sub> Np <sub>2</sub> (Np=Naphthalene, TM=Scâ€“Ni) sandwich clusters. Computational and Theoretical Chemistry, 2013, 1013, 46-51.	1.1	6
66	Robust Room-Temperature Ferromagnetism with Giant Anisotropy in Nd-Doped ZnO Nanowire Arrays. Nano Letters, 2012, 12, 3994-4000.	4.5	157
67	Formation and electronic properties of hydrogenated few layer graphene. Nanotechnology, 2011, 22, 185202.	1.3	74
68	Stability and electronic structure of hydrogen passivated few atomic layer silicon films: A theoretical exploration. Journal of Applied Physics, 2011, 109, 053516.	1.1	10
69	Tailoring band gap in GaN sheet by chemical modification and electric field: <i>Ab initio</i> calculations. Applied Physics Letters, 2011, 98, .	1.5	105
70	Optical properties of boron nitride nanoribbons: Excitonic effects. Applied Physics Letters, 2011, 99, .	1.5	31
71	Structural, Electronic and Infrared Spectral Properties of ZnO Hexagonal Nanodisks with Different Saturate Conditions. Science of Advanced Materials, 2011, 3, 709-718.	0.1	4
72	Structural, and magnetic properties of Europium doped (ZnO) <sup>12</sup> clusters. , 2010, , .		0

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73	Fluorination induced half metallicity in two-dimensional few zinc oxide layers. Journal of Chemical Physics, 2010, 132, 204703.	1.2	32
74	Scaling Dopant States in a Semiconducting Nanostructure by Chemically Resolved Electron Energy-Loss Spectroscopy: A Case Study on Co-Doped ZnO. Journal of the American Chemical Society, 2010, 132, 6492-6497.	6.6	41
75	Structural, electronic, and magnetic properties of TMZn <sub>11</sub> O <sub>12</sub> and TM <sub>2</sub> Zn <sub>10</sub> O <sub>12</sub> clusters (TM=Sc, Ti, V). J. Phys.: Condens. Matter, 2010, 22, 115501.	1.2	35
76	Edge-passivation induced half-metallicity of zigzag zinc oxide nanoribbons. Applied Physics Letters, 2009, 95, .	1.5	39