Zicong Marvin Wong

List of Publications by Year
in descending order

25 papers	444 citations	758635 12 h-index	713013 21 g-index
25 all docs	25 docs citations	25 times ranked	881 citing authors

#	Article	IF	Citations
1	Electric Field-Induced Phase Transition of Nanowires on Germanium(001) Surfaces. Journal of Physical Chemistry Letters, 2022, 13, 1063-1068.	2.1	1
2	Unravelling the Molecular Origin of Organic Semiconductors with Highâ€Performance Thermoelectric Response. Advanced Functional Materials, 2021, 31, 2007438.	7.8	14
3	Ab initio dipolar electron-phonon interactions in two-dimensional materials. Physical Review B, 2021, 103, .	1.1	12
4	Designing Intrinsic Topological Insulators in Two-Dimensional Metalâ€“Organic Frameworks. Journal of Physical Chemistry Letters, 2021, 12, 6934-6940.	2.1	6
5	A molecular roadmap towards organic donor-acceptor complexes with high-performance thermoelectric response. Npj Computational Materials, 2021, 7, .	3.5	12
6	Uncovering the Self-Organized Nanowires on Au-Modified Ge(001) Surfaces. Journal of Physical Chemistry C, 2021, 125, 27876-27883.	1.5	4
7	Theoretical search for high-performance thermoelectric donorâ€“acceptor copolymers: the role of super-exchange couplings. Journal of Materials Chemistry A, 2020, 8, 21852-21861.	5.2	22
8	Strain Effects on the n-Type Thermoelectric Performance of the Small-Molecule Organic Semiconductor 2-5-Difluoro-7,7,8,8-Tetracyanoquinodimethane. ACS Applied Energy Materials, 2020, 3, 10174-10182.	2.5	4
9	High performance photocatalytic and thermoelectric two-dimensional asymmetrically ordered Janus-like MXene alloys. Materials Advances, 2020, 1, 1176-1185.	2.6	14
10	Deciphering the Growth Mechanism of Self-Assembled Nanowires on Pt-Deposited Ge(001) via Scanning Tunneling Microscopy and Density Functional Theory Calculations. Journal of Physical Chemistry C, 2020, 124, 18165-18172.	1.5	2
11	Effect of substituents in sulfoxides on the enhancement of thermoelectric properties of PEDOT:PSS: experimental and modelling evidence. Molecular Systems Design and Engineering, 2020, 5, 976-984.	1.7	29
12	Conducting Polymers: The Role of Electrostatic Interaction between Free Charge Carriers and Counterions in Thermoelectric Power Factor of Conducting Polymers: From Crystalline to Polycrystalline Domains (Adv. Theory Simul. 6/2020). Advanced Theory and Simulations, 2020, 3, 2070016.	1.3	1
13	Beyond the Mahanâ€“Sofo best thermoelectric strategy: high thermoelectric performance from directional Ï€-conjugation in two-dimensional poly(tetrathienoanthracene). Journal of Materials Chemistry A, 2020, 8, 4257-4262.	5.2	13
14	The Role of Electrostatic Interaction between Free Charge Carriers and Counterions in Thermoelectric Power Factor of Conducting Polymers: From Crystalline to Polycrystalline Domains. Advanced Theory and Simulations, 2020, 3, 2000015.	1.3	10
15	EPIC STAR: a reliable and efficient approach for phonon- and impurity-limited charge transport calculations. Npj Computational Materials, 2020, 6, .	3.5	31
16	Oxidation Mechanism on One-Dimensional Pt-Induced Nanowires on Ge(001). Journal of Physical Chemistry C, 2019, 123, 21645-21650.	1.5	2
17	Interface-mediated Kirkendall effect and nanoscale void migration in bimetallic nanoparticles during interdiffusion. Nature Communications, 2019, 10, 2831.	5.8	42
18	Unveiling Oxygen Adsorption States on One-Dimensional Pt-Induced Nanowires on Ge(001). Journal of Physical Chemistry C, 2019, 123, 13263-13268.	1.5	1

#	Article	IF	Citations
19	Computational Discovery of Transparent Conducting In-Plane Ordered MXene (i-MXene) Alloys. Chemistry of Materials, 2019, 31, 4124-4132.	3.2	19
20	Reconfiguring crystal and electronic structures of MoS2 by substitutional doping. Nature Communications, 2018, 9, 199.	5.8	128
21	Optimizing special quasirandom structure (SQS) models for accurate functional property prediction in disordered 2D alloys. Journal of Physics Condensed Matter, 2018, 30, 485402.	0.7	4
22	Enhancing the Photocatalytic Performance of MXenes via Stoichiometry Engineering of Their Electronic and Optical Properties. ACS Applied Materials & Interfaces, 2018, 10, 39879-39889.	4.0	37
23	Computational Design of Perovskite Ba_xSr_{1â€“x}SnO₃ Alloys as Transparent Conductors and Photocatalysts. Journal of Physical Chemistry C, 2017, 121, 26446-26456.	1.5	14
24	Patterned recognition of amines and ammonium ions by a pyridine-based helical oligoamide host. Chemical Communications, 2012, 48, 6343.	2.2	22
25	Self-Assembled Molecular Nanowires on Prepatterned Ge(001) Surfaces. Chemical Science, 0, , .	3.7	0