Zicong Marvin Wong

List of Publications by Year
in descending order

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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	Reconfiguring crystal and electronic structures of MoS2 by substitutional doping. Nature Communications, 2018, 9, 199.	5.8	128
2	Interface-mediated Kirkendall effect and nanoscale void migration in bimetallic nanoparticles during interdiffusion. Nature Communications, 2019, 10, 2831.	5.8	42
3	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
4	EPIC STAR: a reliable and efficient approach for phonon- and impurity-limited charge transport calculations. Npj Computational Materials, 2020, 6, .	3.5	31
5	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
6	Patterned recognition of amines and ammonium ions by a pyridine-based helical oligoamide host. Chemical Communications, 2012, 48, 6343.	2.2	22
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	Computational Discovery of Transparent Conducting In-Plane Ordered MXene (i-MXene) Alloys. Chemistry of Materials, 2019, 31, 4124-4132.	3.2	19
9	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
10	High performance photocatalytic and thermoelectric two-dimensional asymmetrically ordered Janus-like MXene alloys. Materials Advances, 2020, 1, 1176-1185.	2.6	14
11	Unravelling the Molecular Origin of Organic Semiconductors with Highâ€Performance Thermoelectric Response. Advanced Functional Materials, 2021, 31, 2007438.	7.8	14
12	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
13	Ab initio dipolar electron-phonon interactions in two-dimensional materials. Physical Review B, 2021, 103, .	1.1	12
14	A molecular roadmap towards organic donor-acceptor complexes with high-performance thermoelectric response. Npj Computational Materials, 2021, 7, .	3.5	12
15	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
16	Designing Intrinsic Topological Insulators in Two-Dimensional Metalâ€“Organic Frameworks. Journal of Physical Chemistry Letters, 2021, 12, 6934-6940.	2.1	6
17	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
18	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

#	Article	IF	Citations
19	Uncovering the Self-Organized Nanowires on Au-Modified Ge(001) Surfaces. Journal of Physical Chemistry C, 2021, 125, 27876-27883.	1.5	4
20	Oxidation Mechanism on One-Dimensional Pt-Induced Nanowires on Ge(001). Journal of Physical Chemistry C, 2019, 123, 21645-21650.	1.5	2
21	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
22	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
23	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
24	Electric Field-Induced Phase Transition of Nanowires on Germanium(001) Surfaces. Journal of Physical Chemistry Letters, 2022, 13, 1063-1068.	2.1	1
25	Self-Assembled Molecular Nanowires on Prepatterned Ge(001) Surfaces. Chemical Science, 0, , .	3.7	0