

Diana Y Qiu

List of Publications by Year in descending order

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papers

6,103
citations

304743

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37
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37
docs citations

37
times ranked

8186
citing authors

#	ARTICLE	IF	CITATIONS
1	Thickness-dependent phase transition kinetics in lithium-intercalated MoS ₂ . 2D Materials, 2022, 9, 025009.	4.4	8
2	Scalable Synthesis of Monolayer Hexagonal Boron Nitride on Graphene with Giant Bandgap Renormalization. Advanced Materials, 2022, 34, e2201387.	21.0	22
3	A Gapped Phase in Semimetallic T _d WTe ₂ Induced by Lithium Intercalation. Advanced Materials, 2022, 34, e2200861.	21.0	7
4	Many-body effects in the X-ray absorption spectra of liquid water. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2201258119.	7.1	11
5	Screening of Excitons by Organic Cations in Quasi-Two-Dimensional Organic-Inorganic Lead-Halide Perovskites. Nano Letters, 2022, 22, 4870-4878.	9.1	24
6	Solving the Bethe-Salpeter equation on a subspace: Approximations and consequences for low-dimensional materials. Physical Review B, 2021, 103, .	3.2	9
7	Electrical control of anisotropic and tightly bound excitons in bilayer phosphorene. Physical Review B, 2021, 103, .	3.2	16
8	Heterointerface Effects on Lithium-Induced Phase Transitions in Intercalated MoS ₂ . ACS Applied Materials & Interfaces, 2021, 13, 10603-10611.	8.0	17
9	Discovering and understanding materials through computation. Nature Materials, 2021, 20, 728-735.	27.5	60
10	Rational Passivation of Sulfur Vacancy Defects in Two-Dimensional Transition Metal Dichalcogenides. ACS Nano, 2021, 15, 8780-8789.	14.6	52
11	The role of chalcogen vacancies for atomic defect emission in MoS ₂ . Nature Communications, 2021, 12, 3822.	12.8	94
12	Nuclear quantum effects on the quasiparticle properties of the chloride anion aqueous solution within the GW approximation. Physical Review B, 2021, 104, .	3.2	6
13	Signatures of Dimensionality and Symmetry in Exciton Band Structure: Consequences for Exciton Dynamics and Transport. Nano Letters, 2021, 21, 7644-7650.	9.1	21
14	Narrow-band high-lying excitons with negative-mass electrons in monolayer WSe ₂ . Nature Communications, 2021, 12, 5500.	12.8	29
15	Modeling Liquid Water by Climbing up Jacob's Ladder in Density Functional Theory Facilitated by Using Deep Neural Network Potentials. Journal of Physical Chemistry B, 2021, 125, 11444-11456.	2.6	40
16	Heterointerface Control over Lithium-Induced Phase Transitions in MoS ₂ Nanosheets: Implications for Nanoscaled Energy Materials. ACS Applied Nano Materials, 2021, 4, 14105-14114.	5.0	7
17	Comparison of band structure to semiempirical approach for an FeSe monolayer. Physical Review B, 2020, 101, .	7.8	120
18	Large Spin-Orbit Splitting of Deep In-Gap Defect States of Engineered Sulfur Vacancies in Monolayer Physical Review Letters, 2019, 123, 076801.	7.8	120

#	ARTICLE	IF	CITATIONS
19	Identifying substitutional oxygen as a prolific point defect in monolayer transition metal dichalcogenides. Nature Communications, 2019, 10, 3382.	12.8	196
20	A dielectric-defined lateral heterojunction in a monolayer semiconductor. Nature Electronics, 2019, 2, 60-65.	26.0	95
21	Orbital Symmetry and the Optical Response of Single-Layer MX Monochalcogenides. Nano Letters, 2018, 18, 1925-1929.	9.1	41
22	Defect-Induced Modification of Low-Lying Excitons and Valley Selectivity in Monolayer Transition Metal Dichalcogenides. Physical Review Letters, 2018, 121, 167402.	7.8	109
23	Nonuniform sampling schemes of the Brillouin zone for many-electron perturbation-theory calculations in reduced dimensionality. Physical Review B, 2017, 95, .	3.2	78
24	High thermoelectric power factor in two-dimensional crystals of MoS_2 . Physical Review B, 2017, 95, .	3.2	201
25	Dynamics of Symmetry-Breaking Stacking Boundaries in Bilayer MoS_2 . Journal of Physical Chemistry C, 2017, 121, 22559-22566.	3.1	22
26	Environmental Screening Effects in 2D Materials: Renormalization of the Bandgap, Electronic Structure, and Optical Spectra of Few-Layer Black Phosphorus. Nano Letters, 2017, 17, 4706-4712.	9.1	155
27	Direct observation of the layer-dependent electronic structure in phosphorene. Nature Nanotechnology, 2017, 12, 21-25.	31.5	625
28	Gate Switchable Transport and Optical Anisotropy in 90° Twisted Bilayer Black Phosphorus. Nano Letters, 2016, 16, 5542-5546.	9.1	71
29	Screening and many-body effects in two-dimensional crystals: Monolayer MoS_2 . Physical Review B, 2016, 93, .	29.8	293
30	Nonanalyticity, Valley Quantum Phases, and Lightlike Exciton Dispersion in Monolayer Transition Metal Dichalcogenides: Theory and First-Principles Calculations. Physical Review Letters, 2015, 115, 176801.	7.8	196
31	Probing the Role of Interlayer Coupling and Coulomb Interactions on Electronic Structure in Few-Layer MoSe_2 Nanostructures. Nano Letters, 2015, 15, 2594-2599.	9.1	136
32	Giant bandgap renormalization and excitonic effects in a monolayer transition metal dichalcogenide semiconductor. Nature Materials, 2014, 13, 1091-1095.	27.5	1,470
33	Evolution of interlayer coupling in twisted molybdenum disulfide bilayers. Nature Communications, 2014, 5, 4966.	12.8	533
34	Optical Spectrum of MoS_2 : Many-Body Effects and Diversity of Exciton States. Physical Review Letters, 2013, 111, 216805.	7.8	1,275
35	From exciton dispersion to exciton dynamics in functional materials. , 0, , .		0