

Su Ying Quek

List of Publications by Year in descending order

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86
papers

6,781
citations

66343

42
h-index

60623

81
g-index

87
all docs

87
docs citations

87
times ranked

9796
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanically controlled binary conductance switching of a single-molecule junction. Nature Nanotechnology, 2009, 4, 230-234.	31.5	609
2	Interlayer Breathing and Shear Modes in Few-Trilayer MoS ₂ and WSe ₂ . Nano Letters, 2013, 13, 1007-1015.	9.1	576
3	Amine-Gold Linked Single-Molecule Circuits: Experiment and Theory. Nano Letters, 2007, 7, 3477-3482.	9.1	447
4	Bandgap tunability at single-layer molybdenum disulphide grain boundaries. Nature Communications, 2015, 6, 6298.	12.8	358
5	A two-dimensional conjugated aromatic polymer via C-C coupling reaction. Nature Chemistry, 2017, 9, 563-570.	13.6	306
6	Tuneable near white-emissive two-dimensional covalent organic frameworks. Nature Communications, 2018, 9, 2335.	12.8	230
7	Effects of lower symmetry and dimensionality on Raman spectra in two-dimensional WSe ₂ . Physical Review B, 2013, 88, .	3.2	204
8	Conductance and Geometry of Pyridine-Linked Single-Molecule Junctions. Journal of the American Chemical Society, 2010, 132, 6817-6821.	13.7	186
9	Low Resistance Metal Contacts to MoS ₂ Devices with Nickel-Etched-Graphene Electrodes. ACS Nano, 2015, 9, 869-877.	14.6	184
10	Theoretical study of thermoelectric properties of few-layer MoS ₂ and WSe ₂ . Physical Chemistry Chemical Physics, 2014, 16, 10866.	2.8	174
11	The organic-2D transition metal dichalcogenide heterointerface. Chemical Society Reviews, 2018, 47, 3241-3264.	38.1	158
12	Length Dependence of Conductance in Aromatic Single-Molecule Junctions. Nano Letters, 2009, 9, 3949-3953.	9.1	151
13	First-principles investigations of the atomic, electronic, and thermoelectric properties of equilibrium and strained Bi ₂ Se ₃ and Bi ₂ Te ₃ . Physical Review B, 2013, 88, .	3.2	132
14	Point Defects and Localized Excitons in 2D WSe ₂ . ACS Nano, 2019, 13, 6050-6059.	14.6	127
15	Nanoscale Transition Metal Dichalcogenides: Structures, Properties, and Applications. Critical Reviews in Solid State and Materials Sciences, 2014, 39, 319-367.	12.3	125
16	Determination of Energy Level Alignment and Coupling Strength in 4,4'-Bipyridine Single-Molecule Junctions. Nano Letters, 2014, 14, 794-798.	9.1	112
17	Anomalous frequency trends in MoS ₂ thin films attributed to surface effects. Physical Review B, 2013, 88, .	3.2	104
18	Large Frequency Change with Thickness in Interlayer Breathing Mode-Significant Interlayer Interactions in Few Layer Black Phosphorus. Nano Letters, 2015, 15, 3931-3938.	9.1	100

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19	Linkage Engineering by Harnessing Supramolecular Interactions to Fabricate 2D Hydrazone-Linked Covalent Organic Framework Platforms toward Advanced Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 18138-18149.	13.7	99
20	Rapid, Scalable Construction of Highly Crystalline Acylhydrazone Two-Dimensional Covalent Organic Frameworks via Dipole-Induced Antiparallel Stacking. <i>Journal of the American Chemical Society</i> , 2020, 142, 4932-4943.	13.7	99
21	Rapid and Nondestructive Identification of Politypism and Stacking Sequences in Few-Layer Molybdenum Diselenide by Raman Spectroscopy. <i>Advanced Materials</i> , 2015, 27, 4502-4508.	21.0	96
22	Relating Energy Level Alignment and Amine-Linked Single Molecule Junction Conductance. <i>Nano Letters</i> , 2010, 10, 2470-2474.	9.1	95
23	Lattice vibrations and Raman scattering in two-dimensional layered materials beyond graphene. <i>Nano Research</i> , 2016, 9, 3559-3597.	10.4	93
24	Partitioning the interlayer space of covalent organic frameworks by embedding pseudorotaxanes in their backbones. <i>Nature Chemistry</i> , 2020, 12, 1115-1122.	13.6	88
25	Thermopower of Amine-Gold-Linked Aromatic Molecular Junctions from First Principles. <i>ACS Nano</i> , 2011, 5, 551-557.	14.6	87
26	Interlayer vibrational modes in few-quintuple-layer Bi ₂ Se ₃ crystals: Raman spectroscopy and. <i>Physical Review B</i> , 2014, 90, .	14.6	87
27	Heterointerface Screening Effects between Organic Monolayers and Monolayer Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2016, 10, 2476-2484.	14.6	87
28	Quantum-confinement and Structural Anisotropy result in Electrically-Tunable Dirac Cone in Few-layer Black Phosphorous. <i>Scientific Reports</i> , 2015, 5, 11699.	3.3	87
29	Electronic energy level alignment at metal-molecule interfaces with a G approach. <i>Physical Review B</i> , 2011, 84, .	3.2	75
30	Tunable inverted gap in monolayer quasi-metallic MoS ₂ induced by strong charge-lattice coupling. <i>Nature Communications</i> , 2017, 8, 486.	12.8	75
31	Tuning the threshold voltage of MoS ₂ field-effect transistors via surface treatment. <i>Nanoscale</i> , 2015, 7, 10823-10831.	5.6	71
32	Temperature- and Phase-Dependent Phonon Renormalization in 1T-MoS ₂ . <i>ACS Nano</i> , 2018, 12, 5051-5058.	14.6	63
33	Mechanical and Charge Transport Properties of Alkanethiol Self-Assembled Monolayers on a Au(111) Surface: The Role of Molecular Tilt. <i>Langmuir</i> , 2008, 24, 2219-2223.	3.5	62
34	Fabrication and Properties of a Free-Standing Two-Dimensional Titania. <i>Journal of the American Chemical Society</i> , 2017, 139, 15414-15419.	13.7	58
35	Giant second-harmonic generation in ferroelectric NbOI ₂ . <i>Nature Photonics</i> , 2022, 16, 644-650.	31.4	57
36	Gap States at Low-Angle Grain Boundaries in Monolayer Tungsten Diselenide. <i>Nano Letters</i> , 2016, 16, 3682-3688.	9.1	55

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37	Negative Differential Resistance in Transport through Organic Molecules on Silicon. <i>Physical Review Letters</i> , 2007, 98, 066807.	7.8	54
38	Selective thermal reduction of single-layer MoO ₃ nanostructures on Au(111). <i>Surface Science</i> , 2008, 602, 1166-1174.	1.9	52
39	Stacking sequence determines Raman intensities of observed interlayer shear modes in 2D layered materials – A general bond polarizability model. <i>Scientific Reports</i> , 2015, 5, 14565.	3.3	51
40	van der Waals Bonded Co/h-BN Contacts to Ultrathin Black Phosphorus Devices. <i>Nano Letters</i> , 2017, 17, 5361-5367.	9.1	48
41	Determination of Crystal Axes in Semimetallic Te^2MoTe_2 by Polarized Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2017, 27, 1604799.	14.9	47
42	Length dependence of electron transport through molecular wires – a first principles perspective. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 77-96.	2.8	46
43	Rich Coordination Chemistry of Au Adatoms in Gold Sulfide Monolayer on Au(111). <i>Journal of Physical Chemistry B</i> , 2006, 110, 15663-15665.	2.6	41
44	Predictive DFT-Based Approaches to Charge and Spin Transport in Single-Molecule Junctions and Two-Dimensional Materials: Successes and Challenges. <i>Accounts of Chemical Research</i> , 2014, 47, 3250-3257.	15.6	41
45	Dynamic Structural Evolution of Metal–Metal Bonding Network in Monolayer WS ₂ . <i>Chemistry of Materials</i> , 2016, 28, 2308-2314.	6.7	37
46	Valley Zeeman effect and Landau levels in two-dimensional transition metal dichalcogenides. <i>Physical Review Research</i> , 2020, 2, .	3.6	37
47	Tuning electronic properties of novel metal oxide nanocrystals using interface interactions: MoO ₃ monolayers on Au(111). <i>Surface Science</i> , 2005, 577, L71-L77.	1.9	36
48	Dielectric screening by 2D substrates. <i>2D Materials</i> , 2019, 6, 035036.	4.4	32
49	Chiral Phonons and Giant Magneto–Optical Effect in CrBr ₃ 2D Magnet. <i>Advanced Materials</i> , 2021, 33, e2101618.	21.0	31
50	Tunable bright interlayer excitons in few-layer black phosphorus based van der Waals heterostructures. <i>2D Materials</i> , 2018, 5, 045031.	4.4	28
51	Quasiparticle Levels at Large Interface Systems from Many-Body Perturbation Theory: The XAF-CW Method. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3824-3835.	5.3	28
52	Room Temperature Commensurate Charge Density Wave on Epitaxially Grown Bilayer 2H-Tantalum Sulfide on Hexagonal Boron Nitride. <i>ACS Nano</i> , 2020, 14, 3917-3926.	14.6	27
53	Trimethyltin-Mediated Covalent Gold–Carbon Bond Formation. <i>Journal of the American Chemical Society</i> , 2014, 136, 12556-12559.	13.7	25
54	Energy Level Alignment at Hybridized Organic–Metal Interfaces: The Role of Many-Electron Effects. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13125-13134.	3.1	23

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55	Band structure mapping of bilayer graphene via quasiparticle scattering. <i>APL Materials</i> , 2014, 2, .	5.1	22
56	Data-driven discovery of high performance layered van der Waals piezoelectric NbOI ₂ . <i>Nature Communications</i> , 2022, 13, 1884.	12.8	22
57	Impurity-Induced Emission in Re-Doped WS ₂ Monolayers. <i>Nano Letters</i> , 2021, 21, 5293-5300.	9.1	21
58	Anomalous length-independent frontier resonant transmission peaks in armchair graphene nanoribbon molecular wires. <i>Carbon</i> , 2014, 76, 285-291.	10.3	20
59	Structure of incommensurate gold sulfide monolayer on Au(111). <i>Journal of Chemical Physics</i> , 2007, 127, 104704.	3.0	19
60	Organic-2D Material Heterostructures: A Promising Platform for Exciton Condensation and Multiplication. <i>Nano Letters</i> , 2021, 21, 8888-8894.	9.1	18
61	Light-Matter Interaction in Quantum Confined 2D Polar Metals. <i>Advanced Functional Materials</i> , 2021, 31, 2005977.	14.9	17
62	Origin of Contact Resistance at Ferromagnetic Metal-Graphene Interfaces. <i>ACS Nano</i> , 2016, 10, 11219-11227.	14.6	16
63	Near-Unity Molecular Doping Efficiency in Monolayer MoS ₂ . <i>Advanced Electronic Materials</i> , 2021, 7, 2000873.	5.1	16
64	Graphene Nanomesh Formation by Fluorine Intercalation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 29193-29200.	3.1	15
65	Low-bias negative differential resistance effect in armchair graphene nanoribbon junctions. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	15
66	The Origin of Dual Emission in Antiparallel-Stacked Two-Dimensional Covalent Organic Frameworks. , 2020, 2, 654-657.		15
67	Unveiling Atomic-Scale Moiré Features and Atomic Reconstructions in High-Angle Commensurately Twisted Transition Metal Dichalcogenide Homobilayers. <i>Nano Letters</i> , 2021, 21, 3262-3270.	9.1	15
68	Photophysical Characteristics of Boron Vacancy-Derived Defect Centers in Hexagonal Boron Nitride. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21791-21802.	3.1	15
69	Active role of buried ultrathin oxide layers in adsorption of O ₂ on Au films. <i>Surface Science</i> , 2006, 600, 3388-3393.	1.9	14
70	Tunable 2D Group-III Metal Alloys. <i>Advanced Materials</i> , 2021, 33, e2104265.	21.0	14
71	Interface effects on tunneling magnetoresistance in organic spintronics with flexible amine-Au links. <i>Nanotechnology</i> , 2013, 24, 415201.	2.6	13
72	First-principles studies of the electronic structure of cyclopentene on Si(001): density functional theory and GW calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2048-2053.	1.5	12

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73	Spin-Dependent Tunneling Barriers in CoPc/VSe ₂ from Many-Body Interactions. Journal of Physical Chemistry Letters, 2020, 11, 9358-9363.	4.6	12
74	Strong Moiré Excitons in High-Angle Twisted Transition Metal Dichalcogenide Homobilayers with Robust Commensuration. Nano Letters, 2022, 22, 203-210.	9.1	12
75	Compact Super Electron-Donor to Monolayer MoS ₂ . Nano Letters, 2022, 22, 4501-4508.	9.1	8
76	Isolated flat bands and physics of mixed dimensions in a 2D covalent organic framework. Nanoscale, 2020, 12, 20279-20286.	5.6	7
77	Hydrogen adatoms on graphene: The role of hybridization and lattice distortion. Physical Review B, 2020, 102, .	3.2	7
78	Atomic-Level Structure Determines Electron-Phonon Scattering Rates in 2-D Polar Metal Heterostructures. ACS Nano, 2021, 15, 17780-17789.	14.6	7
79	Valley-filling instability and critical magnetic field for interaction-enhanced Zeeman response in doped WSe ₂ monolayers. Npj Computational Materials, 2021, 7, .	8.7	7
80	Light-matter interactions in high quality manganese-doped two-dimensional molybdenum diselenide. Science China Materials, 2021, 64, 2507-2518.	6.3	6
81	Charge Transfer Screening and Energy Level Alignment at Complex Organic-Inorganic Interfaces: A Tractable <i>Ab Initio</i> GW Approach. Journal of Physical Chemistry Letters, 2021, 12, 8841-8846.	4.6	6
82	Graphene-mediated interaction between hydrogen adsorbates. Physical Review B, 2020, 101, .	3.2	4
83	Large magnetoresistance from long-range interface coupling in armchair graphene nanoribbon junctions. Applied Physics Letters, 2014, 105, .	3.3	3
84	Shear Modes in a 2D Polar Metal. Journal of Physical Chemistry Letters, 2022, 13, 4015-4020.	4.6	2
85	Raman Signatures of Surface and Interface Effects in Two-Dimensional Layered Materials: Theoretical Insights. Springer Series in Materials Science, 2019, , 163-184.	0.6	0
86	Applications of Thin Film Oxides in Catalysis. , 2010, , 281-301.		0