

# KianPing Loh

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

610  
papers

55,520  
citations

100  
h-index

220  
g-index

649  
ext. papers

62,497  
ext. citations

11  
avg, IF

8.04  
L-index

#	Paper	IF	Citations
610	Unlocking surface octahedral tilt in two-dimensional Ruddlesden-Popper perovskites.. <i>Nature Communications</i> , <b>2022</b> , 13, 138	17.4	7
609	Tailoring the coercive field in ferroelectric metal-free perovskites by hydrogen bonding.. <i>Nature Communications</i> , <b>2022</b> , 13, 794	17.4	3
608	Sub-Angstrom Imaging of Nondegenerate Kekulé Structures in a Two-Dimensional Halogen-Bonded Supramolecular Network. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 4241-4247	3.8	1
607	Degradation Chemistry and Kinetic Stabilization of Magnetic CrI <sub>3</sub> . <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	3
606	Data-driven discovery of high performance layered van der Waals piezoelectric NbOI <sub>2</sub> . <i>Nature Communications</i> , <b>2022</b> , 13, 1884	17.4	2
605	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	12
604	An ion sieving conjugated microporous thermoset ultrathin membrane for high-performance Li-S battery. <i>Energy Storage Materials</i> , <b>2022</b> , 49, 1-10	19.4	0
603	Learning motifs and their hierarchies in atomic resolution microscopy.. <i>Science Advances</i> , <b>2022</b> , 8, eabk1005	14.5	1
602	Sub-angstrom noninvasive imaging of atomic arrangement in 2D hybrid perovskites.. <i>Science Advances</i> , <b>2022</b> , 8, eabj0395	14.3	3
601	Constructing ambivalent imidazopyridinium-linked covalent organic frameworks <b>2022</b> , 1, 382-392		4
600	Addressing the quantitative conversion bottleneck in single-atom catalysis.. <i>Nature Communications</i> , <b>2022</b> , 13, 2807	17.4	2
599	Controllable phase transitions between multiple charge density waves in monolayer 1T-VSe <sub>2</sub> via charge doping. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 163101	3.4	2
598	Exploring Low Power and Ultrafast Memristor on p-Type van der Waals SnS. <i>Nano Letters</i> , <b>2021</b> , 21, 8800-8807	11.5	13
597	High-Yield Exfoliation of Monolayer 1T'-MoTe <sub>2</sub> as Saturable Absorber for Ultrafast Photonics. <i>ACS Nano</i> , <b>2021</b> ,	16.7	5
596	Electron beam triggered single-atom dynamics in two-dimensional materials. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33, 063001	1.8	2
595	Unveiling Atomic-Scale Moiré Features and Atomic Reconstructions in High-Angle Commensurately Twisted Transition Metal Dichalcogenide Homobilayers. <i>Nano Letters</i> , <b>2021</b> , 21, 3262-3270	11.5	5
594	From Micropores to Ultra-micropores inside Hard Carbon: Toward Enhanced Capacity in Room-/Low-Temperature Sodium-Ion Storage. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 98	19.5	11

593	Dense-Stacking Porous Conjugated Polymer as Reactive-Type Host for High-Performance Lithium Sulfur Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 11460-11470	3.6	4
592	Observation of Strong Valley Magnetic Response in Monolayer Transition Metal Dichalcogenide Alloys of MoWSe and MoWSe/WS Heterostructures. <i>ACS Nano</i> , <b>2021</b> , 15, 8397-8406	16.7	2
591	Local Energy Landscape Drives Long-Range Exciton Diffusion in Two-Dimensional Halide Perovskite Semiconductors. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 4003-4011	6.4	4
590	Para-Substituted Triphenylamine as a Catholyte for Zinc/Organic Aqueous Redox Flow Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 3612-3621	6.1	6
589	Dense-Stacking Porous Conjugated Polymer as Reactive-Type Host for High-Performance Lithium Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11359-11369	16.4	17
588	Multifunctional Properties of a Zn(II) Coordination Complex. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 3401-3408	3.9	4
587	A flexible multiplexed immunosensor for point-of-care in situ wound monitoring. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	28
586	Tuning photoresponse of graphene-black phosphorus heterostructure by electrostatic gating and photo-induced doping. <i>Chinese Chemical Letters</i> , <b>2021</b> , 33, 368-368	8.1	1
585	A High-Performance Lithium Metal Battery with Ion-Selective Nanofluidic Transport in a Conjugated Microporous Polymer Protective Layer. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006323	24	27
584	Room-Temperature Palladium-Catalyzed Deuterogenolysis of Carbon Oxygen Bonds towards Deuterated Pharmaceuticals. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6357-6361	16.4	15
583	Molecular engineered palladium single atom catalysts with an M-C1N3 subunit for Suzuki coupling. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11427-11432	13	5
582	One-Pot Confined Epitaxial Growth of 2D Heterostructure Arrays <b>2021</b> , 3, 217-223		4
581	Intrinsic polarization coupling in 2D Hn2Se3 toward artificial synapse with multimode operations. <i>SmartMat</i> , <b>2021</b> , 2, 88-98	22.8	24
580	In Situ Synthesis of Lead-Free Halide Perovskite CsAgBiBr Supported on Nitrogen-Doped Carbon for Efficient Hydrogen Evolution in Aqueous HBr Solution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 10037-10046	9.5	18
579	Atomic Imaging of Electrically Switchable Striped Domains in HIn Se. <i>Advanced Science</i> , <b>2021</b> , 8, e2100713	3.6	6
578	Iron Single Atom Catalyzed Quinoline Synthesis. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101382	24	11
577	In-Plane Anisotropic Nonlinear Optical Properties of Two-Dimensional Organic-Inorganic Hybrid Perovskite. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 7010-7018	6.4	4
576	Facile Production of Phosphorene Nanoribbons towards Application in Lithium Metal Battery. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102083	24	12

575	Single-Atom Catalysis: From Simple Reactions to the Synthesis of Complex Molecules. <i>Advanced Materials</i> , <b>2021</b> , e2103882	24	12
574	Ferroelectricity and Rashba effect in 2D organic-inorganic hybrid perovskites. <i>Trends in Chemistry</i> , <b>2021</b> , 3, 716-732	14.8	7
573	Room Temperature Ferromagnetism of Monolayer Chromium Telluride with Perpendicular Magnetic Anisotropy. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103360	24	17
572	Nanocrystalline diamond film grown by pulsed linear antenna microwave CVD. <i>Diamond and Related Materials</i> , <b>2021</b> , 119, 108576	3.5	1
571	Photophysics of 2D Organic-Inorganic Hybrid Lead Halide Perovskites: Progress, Debates, and Challenges. <i>Advanced Science</i> , <b>2021</b> , 8, 2001843	13.6	24
570	Direct Bandgap-like Strong Photoluminescence from Twisted Multilayer MoS Grown on SrTiO. <i>ACS Nano</i> , <b>2020</b> ,	16.7	4
569	Divergent Chemistry Paths for 3D and 1D Metallo-Covalent Organic Frameworks (COFs). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 11624-11629	3.6	3
568	Can Reconstructed Se-Deficient Line Defects in Monolayer VSe Induce Magnetism?. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000693	24	36
567	The Origin of Dual Emission in Antiparallel-Stacked Two-Dimensional Covalent Organic Frameworks <b>2020</b> , 2, 654-657		8
566	Engineering covalently bonded 2D layered materials by self-intercalation. <i>Nature</i> , <b>2020</b> , 581, 171-177	50.4	68
565	Synthesis of Two-Dimensional Perovskite by Inverse Temperature Crystallization and Studies of Exciton States by Two-Photon Excitation Spectroscopy. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002661	15.6	9
564	Function-oriented synthesis of two-dimensional (2D) covalent organic frameworks - from 3D solids to 2D sheets. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 4835-4866	58.5	60
563	Self-cross-linked arrays enabled flexible mechanical sensors for monitoring the body tremor. <i>Npj Flexible Electronics</i> , <b>2020</b> , 4,	10.7	7
562	Large enhancement of thermoelectric performance in MoS-BN heterostructure due to vacancy-induced band hybridization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 13929-13936	11.5	14
561	In-Plane Ferroelectric Tin Monosulfide and Its Application in a Ferroelectric Analog Synaptic Device. <i>ACS Nano</i> , <b>2020</b> , 14, 7628-7638	16.7	50
560	An Anomalous Magneto-Optic Effect in Epitaxial Indium Selenide Layers. <i>Nano Letters</i> , <b>2020</b> , 20, 5330-5338	13.5	4
559	Site-selective alkene borylation enabled by synergistic hydrometallation and borometallation. <i>Nature Catalysis</i> , <b>2020</b> , 3, 585-592	36.5	23
558	Domain Engineering in ReS <sub>2</sub> by Coupling Strain during Electrochemical Exfoliation. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003057	15.6	8

557	Single crystal of a one-dimensional metallo-covalent organic framework. <i>Nature Communications</i> , <b>2020</b> , 11, 1434	17.4	26
556	From bulk to molecularly thin hybrid perovskites. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 482-500	73.3	80
555	Divergent Chemistry Paths for 3D and 1D Metallo-Covalent Organic Frameworks (COFs). <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11527-11532	16.4	10
554	Enhanced Valley Zeeman Splitting in Fe-Doped Monolayer MoS. <i>ACS Nano</i> , <b>2020</b> , 14, 4636-4645	16.7	32
553	Proton-transfer-induced 3D/2D hybrid perovskites suppress ion migration and reduce luminance overshoot. <i>Nature Communications</i> , <b>2020</b> , 11, 3378	17.4	51
552	Visualization of Crystallographic Orientation and Twist Angles in Two-Dimensional Crystals with an Optical Microscope. <i>Nano Letters</i> , <b>2020</b> , 20, 6059-6066	11.5	3
551	Spin-Valley Locking Effect in Defect States of Monolayer MoS. <i>Nano Letters</i> , <b>2020</b> , 20, 2129-2136	11.5	27
550	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> , <b>2020</b> , 142, 4932-4943	16.4	48
549	Room Temperature Commensurate Charge Density Wave on Epitaxially Grown Bilayer 2H-Tantalum Sulfide on Hexagonal Boron Nitride. <i>ACS Nano</i> , <b>2020</b> , 14, 3917-3926	16.7	17
548	Building vertically-structured, high-performance electrodes by interlayer-confined reactions in accordion-like, chemically expanded graphite. <i>Nano Energy</i> , <b>2020</b> , 70, 104482	17.1	16
547	Unusual Hole and Electron Midgap States and Orbital Reconstructions Induced Huge Ferroelectric Tunneling Electroresistance in BaTiO/SrTiO. <i>Nano Letters</i> , <b>2020</b> , 20, 1101-1109	11.5	5
546	Coexistence of large conventional and planar spin Hall effect with long spin diffusion length in a low-symmetry semimetal at room temperature. <i>Nature Materials</i> , <b>2020</b> , 19, 292-298	27	35
545	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. <i>Joule</i> , <b>2020</b> , 4, 1035-1053	17.8	145
544	A solution-processable and ultra-permeable conjugated microporous thermoset for selective hydrogen separation. <i>Nature Communications</i> , <b>2020</b> , 11, 1633	17.4	23
543	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. <i>Research</i> , <b>2020</b> , 2020, 9085782	7.8	25
542	Cobalt Single-Atom-Intercalated Molybdenum Disulfide for Sulfide Oxidation with Exceptional Chemoselectivity. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906437	24	30
541	Graphene-Oxide-Catalyzed Cross-Dehydrogenative Coupling of Oxindoles with Arenes and Thiophenols. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 789-794	5.6	19
540	Solution-Processable Covalent Organic Framework Electrolytes for All-Solid-State Li <sup>+</sup> Organic Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3498-3506	20.1	51

539	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> , <b>2020</b> , 142, 18138-18149	16.4	44
538	Self-Powered Photodetector Using Two-Dimensional Ferroelectric Dion-Jacobson Hybrid Perovskites. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18592-18598	16.4	35
537	Visualizing the Anomalous Charge Density Wave States in Graphene/NbSe Heterostructures. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003746	24	8
536	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 137	16.7	30
535	Partitioning the interlayer space of covalent organic frameworks by embedding pseudorotaxanes in their backbones. <i>Nature Chemistry</i> , <b>2020</b> , 12, 1115-1122	17.6	23
534	Photocatalytic Hydrogen Evolution: Photocatalytic Hydrogen Evolution under Ambient Conditions on Polymeric Carbon Nitride/Donor-Acceptor Organic Molecule Heterostructures (Adv. Funct. Mater. 43/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070288	15.6	3
533	Electron tunneling at the molecularly thin 2D perovskite and graphene van der Waals interface. <i>Nature Communications</i> , <b>2020</b> , 11, 5483	17.4	16
532	Semiconductor photocatalysis to engineering deuterated N-alkyl pharmaceuticals enabled by synergistic activation of water and alkanols. <i>Nature Communications</i> , <b>2020</b> , 11, 4722	17.4	18
531	Atomic-Level Electronic Properties of Carbon Nitride Monolayers. <i>ACS Nano</i> , <b>2020</b> , 14, 14008-14016	16.7	7
530	Photocatalytic Hydrogen Evolution under Ambient Conditions on Polymeric Carbon Nitride/Donor-Acceptor Organic Molecule Heterostructures. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005106	15.6	18
529	Exploring Ferroelectric Switching in Hn2Se3 for Neuromorphic Computing. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004609	15.6	42
528	Intercalated phases of transition metal dichalcogenides. <i>SmartMat</i> , <b>2020</b> , 1, e1013	22.8	27
527	Giant Enhancement of Second Harmonic Generation Accompanied by the Structural Transformation of 7-Fold to 8-Fold Interpenetrated Metal-Organic Frameworks (MOFs). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 843-848	3.6	6
526	Giant Enhancement of Second Harmonic Generation Accompanied by the Structural Transformation of 7-Fold to 8-Fold Interpenetrated Metal-Organic Frameworks (MOFs). <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 833-838	16.4	33
525	Covalent-Organic-Framework-Based Li-CO Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1905879	24	75
524	Polaronic Trions at the MoS <sub>2</sub> /SrTiO <sub>3</sub> Interface. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903569	24	16
523	Ferroelectricity and Rashba Effect in a Two-Dimensional Dion-Jacobson Hybrid Organic-Inorganic Perovskite. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15972-15976	16.4	65
522	Effect of Conducting Salts in Ionic Liquid Electrolytes for Enhanced Cyclability of Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 23972-23981	9.5	13

521	On-chip integrated photonic circuits based on two-dimensional materials and hexagonal boron nitride as the optical confinement layer. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 230901	2.5	6
520	Giant and Tunable Optical Nonlinearity in Single-Crystalline 2D Perovskites due to Excitonic and Plasma Effects. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902685	24	31
519	Staging: Unraveling the Potassium Storage Mechanism in Graphite Foam (Adv. Energy Mater. 22/2019). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1970081	21.8	3
518	Single-Atom Coated Separator for Robust Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 25147-25154	9.5	95
517	Anomalous Quantum Metal in a 2D Crystalline Superconductor with Electronic Phase Nonuniformity. <i>Nano Letters</i> , <b>2019</b> , 19, 4126-4133	11.5	9
516	Maximizing the utility of single atom electrocatalysts on a 3D graphene nanomesh. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15575-15579	13	24
515	Hierarchically Porous Carbon Plates Derived from Wood as Bifunctional ORR/OER Electrodes. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900341	24	191
514	Fundamental Transport Mechanisms and Advancements of Graphene Oxide Membranes for Molecular Separation. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1829-1846	9.6	57
513	Unraveling the Potassium Storage Mechanism in Graphite Foam. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900579	21.8	86
512	Atomically-thin Bi <sub>2</sub> MoO <sub>6</sub> nanosheets with vacancy pairs for improved photocatalytic CO <sub>2</sub> reduction. <i>Nano Energy</i> , <b>2019</b> , 61, 54-59	17.1	150
511	Room-Temperature Magnets Based on 1,3,5-Triazine-Linked Porous Organic Radical Frameworks. <i>CheM</i> , <b>2019</b> , 5, 1223-1234	16.2	41
510	Modulating Charge Density Wave Order in a 1T-TaS/Black Phosphorus Heterostructure. <i>Nano Letters</i> , <b>2019</b> , 19, 2840-2849	11.5	13
509	Healing of Planar Defects in 2D Materials via Grain Boundary Sliding. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900237	24	24
508	Desalination properties of a free-standing, partially oxidized few-layer graphene membrane. <i>Desalination</i> , <b>2019</b> , 451, 72-80	10.3	16
507	Engineering and Modifying Two-Dimensional Materials via Electron Beams. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1474-1475	0.5	
506	Chemically Exfoliated VSe Monolayers with Room-Temperature Ferromagnetism. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903779	24	131
505	Recent Progress in Covalent Organic Frameworks as Solid-State Ion Conductors <b>2019</b> , 1, 327-335		36
504	Highly Stable Two-Dimensional Tin(II) Iodide Hybrid Organic-Inorganic Perovskite Based on Stilbene Derivative. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904810	15.6	36

503	Ultrafast All-Optical Modulation in 2D Hybrid Perovskites. <i>ACS Nano</i> , <b>2019</b> , 13, 9504-9510	16.7	36
502	Realizing Interfacial Electronic Interaction within ZnS Quantum Dots/N-rGO Heterostructures for Efficient Li <sub>2</sub> O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901806	21.8	60
501	Gate-Tunable In-Plane Ferroelectricity in Few-Layer SnS. <i>Nano Letters</i> , <b>2019</b> , 19, 5109-5117	11.5	80
500	2D Perovskites with Giant Excitonic Optical Nonlinearities for High-Performance Sub-Bandgap Photodetection. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904155	24	39
499	From All-Triazine C <sub>3</sub> N <sub>3</sub> Framework to Nitrogen-Doped Carbon Nanotubes: Efficient and Durable Trifunctional Electrocatalysts. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 7969-7977	5.6	27
498	Edge Segregated Polymorphism in 2D Molybdenum Carbide. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808343	24	40
497	Expedient synthesis of $\alpha$ -hydrazone esters and 1-indazole scaffolds through heterogeneous single-atom platinum catalysis. <i>Science Advances</i> , <b>2019</b> , 5, eaay1537	14.3	17
496	Hydrogen bond guided synthesis of close-packed one-dimensional graphdiyne on the Ag(111) surface. <i>Chemical Science</i> , <b>2019</b> , 10, 10849-10852	9.4	9
495	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (CHNH)PbI Perovskite Exfoliated nm-Thin Flakes. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1235-1241	16.4	61
494	Defect engineered bioactive transition metals dichalcogenides quantum dots. <i>Nature Communications</i> , <b>2019</b> , 10, 41	17.4	107
493	Promoted Glycerol Oxidation Reaction in an Interface-Confined Hierarchically Structured Catalyst. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804763	24	29
492	Co-milling-assisted exfoliated graphite nanoplatelets filler introduction in polyethylene and alumina composites. <i>Journal of Composite Materials</i> , <b>2019</b> , 53, 1815-1826	2.7	
491	Interface Engineering of Au(111) for the Growth of 1T'-MoSe. <i>ACS Nano</i> , <b>2019</b> , 13, 2316-2323	16.7	19
490	Molecular Diodes: Stable Molecular Diodes Based on $\pi$ Interactions of the Molecular Frontier Orbitals with Graphene Electrodes (Adv. Mater. 10/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870069	24	
489	Covalent Organic Framework with Frustrated Bonding Network for Enhanced Carbon Dioxide Storage. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1762-1768	9.6	109
488	Highly photoluminescent two-dimensional imine-based covalent organic frameworks for chemical sensing. <i>Chemical Communications</i> , <b>2018</b> , 54, 2349-2352	5.8	138
487	Strain Modulation by van der Waals Coupling in Bilayer Transition Metal Dichalcogenide. <i>ACS Nano</i> , <b>2018</b> , 12, 1940-1948	16.7	37
486	Intrinsic hydrophilic nature of epitaxial thin-film of rare-earth oxide grown by pulsed laser deposition. <i>Nanoscale</i> , <b>2018</b> , 10, 3356-3361	7.7	25



485	Stable Molecular Diodes Based on $\pi$ -Interactions of the Molecular Frontier Orbitals with Graphene Electrodes. <i>Advanced Materials</i> , <b>2018</b> , 30, 1706322	24	23
484	Mo-Terminated Edge Reconstructions in Nanoporous Molybdenum Disulfide Film. <i>Nano Letters</i> , <b>2018</b> , 18, 482-490	11.5	76
483	Highly Enhanced Third-Harmonic Generation in 2D Perovskites at Excitonic Resonances. <i>ACS Nano</i> , <b>2018</b> , 12, 644-650	16.7	66
482	Controllable deuteration of halogenated compounds by photocatalytic DO splitting. <i>Nature Communications</i> , <b>2018</b> , 9, 80	17.4	88
481	A non-dispersion strategy for large-scale production of ultra-high concentration graphene slurries in water. <i>Nature Communications</i> , <b>2018</b> , 9, 76	17.4	117
480	Low-dimensional catalysts for hydrogen evolution and CO <sub>2</sub> reduction. <i>Nature Reviews Chemistry</i> , <b>2018</b> , 2,	34.6	441
479	Quasi-Monolayer Black Phosphorus with High Mobility and Air Stability. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704619	24	62
478	Atom-by-Atom Fabrication of Monolayer Molybdenum Membranes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707281	24	46
477	Phonon-Mediated Colossal Magnetoresistance in Graphene/Black Phosphorus Heterostructures. <i>Nano Letters</i> , <b>2018</b> , 18, 3377-3383	11.5	21
476	Temperature- and Phase-Dependent Phonon Renormalization in 1T'-MoS. <i>ACS Nano</i> , <b>2018</b> , 12, 5051-5058	16.7	39
475	Dislocation-driven growth of two-dimensional lateral quantum-well superlattices. <i>Science Advances</i> , <b>2018</b> , 4, eaap9096	14.3	30
474	When stem cells meet graphene: Opportunities and challenges in regenerative medicine. <i>Biomaterials</i> , <b>2018</b> , 155, 236-250	15.6	181
473	Molecular Engineering of Bandgaps in Covalent Organic Frameworks. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5743-5749	9.6	65
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36	The evolution of R30° and $\beta\beta\beta R30^\circ$ superstructures on 6H-SiC (0001) surfaces studied by reflection high energy electron diffraction. <i>Surface Science</i> , <b>2001</b> , 478, 57-71	1.8	37

35	Compositional mapping of the argon-methane-hydrogen system for polycrystalline to nanocrystalline diamond film growth in a hot-filament chemical vapor deposition system. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2692-2694	3.4	84
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33	High resolution transmission electron microscopy study of the initial growth of diamond on silicon. <i>Diamond and Related Materials</i> , <b>2000</b> , 9, 1703-1707	3.5	9
32	Recent studies on diamond surfaces. <i>Diamond and Related Materials</i> , <b>2000</b> , 9, 1582-1590	3.5	49
31	Homoepitaxial growth and hydrogen incorporation on the chemical vapor deposited (111) diamond. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 1306-1310	2.5	24
30	Surface conditioning of chemical vapor deposited hexagonal boron nitride film for negative electron affinity. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 28-30	3.4	92
29	Surface morphology of homoepitaxially grown (111), (001), and (110) diamond studied by low energy electron diffraction and reflection high-energy electron diffraction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1999</b> , 17, 2991-3002	2.9	11
28	Surface structure of C(100)( $\sqrt{3}\times\sqrt{3}$ ) studied by a quantitative LEED analysis. <i>Physical Review B</i> , <b>1999</b> , 59, 10347-10350	3.3	20
27	Negative electron affinity of cubic boron nitride. <i>Diamond and Related Materials</i> , <b>1999</b> , 8, 781-784	3.5	14
26	Hydrogen desorption and etching studies of cubic boron nitride surfaces. <i>Diamond and Related Materials</i> , <b>1999</b> , 8, 1296-1300	3.5	14
25	Hydrogen incorporation control in high quality homoepitaxial diamond (111) growth. <i>Diamond and Related Materials</i> , <b>1999</b> , 8, 1291-1295	3.5	14
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23	Surface studies of the reactivity of methyl, acetylene and atomic hydrogen at CVD diamond surfaces. <i>Surface Science</i> , <b>1998</b> , 399, 1-14	1.8	14
22	Photoelectron spectroscopy studies of barium films on diamond with respect to the modification of negative electron affinity characteristics. <i>Diamond and Related Materials</i> , <b>1998</b> , 7, 651-655	3.5	9
21	Confocal Raman spectroscopic study of the heteroepitaxial diamond growth on Pt(111). <i>Diamond and Related Materials</i> , <b>1998</b> , 7, 783-788	3.5	13
20	Confocal Raman spectroscopic observation of hexagonal diamond formation from dissolved carbon in nickel under chemical vapor deposition conditions. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 765-767	3.4	18
19	Reactive chemistry of C <sub>2</sub> H <sub>x</sub> species on CVD diamond. <i>Diamond and Related Materials</i> , <b>1998</b> , 7, 243-246	3.5	2
18	Effect of oxygen addition on boron incorporation on semiconductive diamond CVD. <i>Diamond and Related Materials</i> , <b>1998</b> , 7, 1144-1147	3.5	23

17	Suppression of surface cracks on (111) homoepitaxial diamond through impurity limitation by oxygen addition. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 2675-2677	3.4	18
16	Two different domains in a cubic boron nitride (111) surface observed by friction force microscopy. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 2733-2735	3.4	5
15	Hydrogen-induced surface structuring of a cubic boron nitride (100) face studied by low-energy electron diffraction and electron spectroscopic techniques. <i>Physical Review B</i> , <b>1998</b> , 57, 7266-7274	3.3	21
14	Thermal stability of the negative electron affinity condition on cubic boron nitride. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 3023-3025	3.4	32
13	Silicon incorporation into chemical vapor deposition diamond: A role of oxygen. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 629-631	3.4	31
12	Surface structure of single-crystal cubic boron nitride (111) studied by LEED, EELS, and AES. <i>Physical Review B</i> , <b>1997</b> , 56, R12791-R12794	3.3	21
11	Diamond growth chemistry: Its observation using real time in situ molecular beam scattering techniques. <i>Diamond and Related Materials</i> , <b>1997</b> , 6, 219-223	3.5	2
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