KianPing Loh

List of Publications by Citations

610	55,520	100	220
papers	citations	h-index	g-index
649	62,497	11	8.04
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
610	The chemistry of two-dimensional layered transition metal dichalcogenide nanosheets. *Nature Chemistry*, **2013**, 5, 263-75	17.6	6689
609	Graphene oxide as a chemically tunable platform for optical applications. *Nature Chemistry*, **2010**, 2, 1015-24	17.6	2633
608	Atomic-Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. *Advanced Functional Materials*, **2009**, 19, 3077-3083	15.6	1875
607	Graphene photonics, plasmonics, and broadband optoelectronic devices. *ACS Nano*, **2012**, 6, 3677-94	16.7	1468
606	Hydrothermal Dehydration for the "Green" Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. *Chemistry of Materials*, **2009**, 21, 2950-2956	9.6	1285
605	The chemistry of graphene. *Journal of Materials Chemistry*, **2010**, 20, 2277		1222
604	One-pot synthesis of fluorescent carbon nanoribbons, nanoparticles, and graphene by the exfoliation of graphite in ionic liquids. *ACS Nano*, **2009**, 3, 2367-75	16.7	976
603	Molybdenum disulfide (MoS_2) as a broadband saturable absorber for ultra-fast photonics. *Optics Express*, **2014**, 22, 7249-60	3.3	846
602	Electrocatalytically active graphene-porphyrin MOF composite for oxygen reduction reaction. *Journal of the American Chemical Society*, **2012**, 134, 6707-13	16.4	817
601	Broadband graphene polarizer. *Nature Photonics*, **2011**, 5, 411-415	33.9	806
600	Origin of enhanced stem cell growth and differentiation on graphene and graphene oxide. *ACS Nano*, **2011**, 5, 7334-41	16.7	802
599	A Graphene Oxide and Copper-Centered Metal Organic Framework Composite as a Tri-Functional Catalyst for HER, OER, and ORR. *Advanced Functional Materials*, **2013**, 23, 5363-5372	15.6	692
598	Length-dependent thermal conductivity in suspended single-layer graphene. *Nature Communications*, **2014**, 5, 3689	17.4	603
597	Solution-gated epitaxial graphene as pH sensor. *Journal of the American Chemical Society*, **2008**, 130, 14392-3	16.4	602
596	High yield exfoliation of two-dimensional chalcogenides using sodium naphthalenide. *Nature Communications*, **2014**, 5, 2995	17.4	556
595	Transforming C60 molecules into graphene quantum dots. *Nature Nanotechnology*, **2011**, 6, 247-52	28.7	522
594	High-yield synthesis of few-layer graphene flakes through electrochemical expansion of graphite in propylene carbonate electrolyte. *Journal of the American Chemical Society*, **2011**, 133, 8888-91	16.4	483

593	Probing the catalytic activity of porous graphene oxide and the origin of this behaviour. *Nature Communications*, **2012**, 3, 1298	17.4	465
592	Electrochemical delamination of CVD-grown graphene film: toward the recyclable use of copper catalyst. *ACS Nano*, **2011**, 5, 9927-33	16.7	451
591	Large energy mode locking of an erbium-doped fiber laser with atomic layer graphene. *Optics Express*, **2009**, 17, 17630-5	3.3	447
590	Low-dimensional catalysts for hydrogen evolution and CO2 reduction. *Nature Reviews Chemistry*, **2018**, 2,	34.6	441
589	Interface engineering of layer-by-layer stacked graphene anodes for high-performance organic solar cells. *Advanced Materials*, **2011**, 23, 1514-8	24	437
588	High mobility, printable, and solution-processed graphene electronics. *Nano Letters*, **2010**, 10, 92-8	11.5	413
587	Carbocatalysts: graphene oxide and its derivatives. *Accounts of Chemical Research*, **2013**, 46, 2275-85	24.3	409
586	Graphene mode locked, wavelength-tunable, dissipative soliton fiber laser. *Applied Physics Letters*, **2010**, 96, 111112	3.4	402
585	Large energy soliton erbium-doped fiber laser with a graphene-polymer composite mode locker. *Applied Physics Letters*, **2009**, 95, 141103	3.4	386
584	Graphene–Polymer Nanofiber Membrane for Ultrafast Photonics. *Advanced Functional Materials*, **2010**, 20, 782-791	15.6	382
583	Large area, continuous, few-layered graphene as anodes in organic photovoltaic devices. *Applied Physics Letters*, **2009**, 95, 063302	3.4	368
582	Electrochemical Double-Layer Capacitance of MoS[sub 2] Nanowall Films. *Electrochemical and Solid-State Letters*, **2007**, 10, A250		360
581	Structure-directing role of graphene in the synthesis of metal-organic framework nanowire. *Journal of the American Chemical Society*, **2010**, 132, 14487-95	16.4	350
580	Face-to-face transfer of wafer-scale graphene films. *Nature*, **2014**, 505, 190-4	50.4	326
579	Monolayer graphene as a saturable absorber in a mode-locked laser. *Nano Research*, **2011**, 4, 297-307	10	322
578	Controlling many-body states by the electric-field effect in a two-dimensional material. *Nature*, **2016**, 529, 185-9	50.4	301
577	Reversible multi-electron redox chemistry of π-conjugated N-containing heteroaromatic molecule-based organic cathodes. *Nature Energy*, **2017**, 2,	62.3	292
576	Aqueous rechargeable lithium batteries as an energy storage system of superfast charging. *Energy and Environmental Science*, **2013**, 6, 2093	35.4	290

575	A graphene oxide-organic dye ionic complex with DNA-sensing and optical-limiting properties. *Angewandte Chemie - International Edition*, **2010**, 49, 6549-53	16.4	283
574	Fluorinated graphene for promoting neuro-induction of stem cells. *Advanced Materials*, **2012**, 24, 4285-90	24	280
573	Microstructuring of graphene oxide nanosheets using direct laser writing. *Advanced Materials*, **2010**, 22, 67-71	24	278
572	Atomic layer deposition of a MoS□film. *Nanoscale*, **2014**, 6, 10584-8	7.7	276
571	Multilayer Hybrid Films Consisting of Alternating Graphene and Titania Nanosheets with Ultrafast Electron Transfer and Photoconversion Properties. *Advanced Functional Materials*, **2009**, 19, 3638-3643	15.6	276
570	Graphene-based SELDI probe with ultrahigh extraction and sensitivity for DNA oligomer. *Journal of the American Chemical Society*, **2010**, 132, 10976-7	16.4	252
569	A two-dimensional conjugated aromatic polymer via C-C coupling reaction. *Nature Chemistry*, **2017**, 9, 563-570	17.6	243
568	Graphene oxide and Rose Bengal: oxidative C□H functionalisation of tertiary amines using visible light. *Green Chemistry*, **2011**, 13, 3341	10	241
567	□Fe2O3 nanotubes-reduced graphene oxide composites as synergistic electrochemical capacitor materials. *Nanoscale*, **2012**, 4, 2958-61	7.7	237
566	High-throughput synthesis of graphene by intercalation-exfoliation of graphite oxide and study of ionic screening in graphene transistor. *ACS Nano*, **2009**, 3, 3587-94	16.7	237
565	Magnetic molybdenum disulfide nanosheet films. *Nano Letters*, **2007**, 7, 2370-6	11.5	220
564	Direct voltammetric detection of DNA and pH sensing on epitaxial graphene: an insight into the role of oxygenated defects. *Analytical Chemistry*, **2010**, 82, 7387-93	7.8	217
563	Molecularly thin two-dimensional hybrid perovskites with tunable optoelectronic properties due to reversible surface relaxation. *Nature Materials*, **2018**, 17, 908-914	27	207
562	Compact graphene mode-locked wavelength-tunable erbium-doped fiber lasers: from all anomalous dispersion to all normal dispersion. *Laser Physics Letters*, **2010**, 7, 591-596	1.5	201
561	Direct observation of single-walled carbon nanotube growth at the atomistic scale. *Nano Letters*, **2006**, 6, 449-52	11.5	199
560	Chemical Vapor Deposition of Large-Size Monolayer MoSe Crystals on Molten Glass. *Journal of the American Chemical Society*, **2017**, 139, 1073-1076	16.4	196
559	Direct Synthesis of Large-Area 2D Mo C on In Situ Grown Graphene. *Advanced Materials*, **2017**, 29, 1700072	24	195
558	Hierarchically Porous Carbon Plates Derived from Wood as Bifunctional ORR/OER Electrodes. *Advanced Materials*, **2019**, 31, e1900341	24	191

557	Dissipative soliton operation of an ytterbium-doped fiber laser mode locked with atomic multilayer graphene. *Optics Letters*, **2010**, 35, 3622-4	3	187
556	Dynamical observation of bamboo-like carbon nanotube growth. *Nano Letters*, **2007**, 7, 2234-8	11.5	186
555	When stem cells meet graphene: Opportunities and challenges in regenerative medicine. *Biomaterials*, **2018**, 155, 236-250	15.6	181
554	Li storage and impedance spectroscopy studies on Co3O4, CoO, and CoN for Li-ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 680-90	9.5	179
553	Growth of Bismuth Sulfide Nanowire Using Bismuth Trisxanthate Single Source Precursors. *Chemistry of Materials*, **2003**, 15, 4544-4554	9.6	173
552	Synthesis and reduction of large sized graphene oxide sheets. *Chemical Society Reviews*, **2017**, 46, 7306-7316	58.5	166
551	Two-dimensional dichalcogenides for light-harvesting applications. *Nano Today*, **2015**, 10, 128-137	17.9	165
550	Atomic structure of the 6H□SiC(0001) nanomesh. *Surface Science*, **2005**, 596, 176-186	1.8	165
549	Phase Restructuring in Transition Metal Dichalcogenides for Highly Stable Energy Storage. *ACS Nano*, **2016**, 10, 9208-9215	16.7	160
548	Tuneable near white-emissive two-dimensional covalent organic frameworks. *Nature Communications*, **2018**, 9, 2335	17.4	159
547	One- and two-photon turn-on fluorescent probe for cysteine and homocysteine with large emission shift. *Organic Letters*, **2009**, 11, 1257-60	6.2	155
546	Atomically-thin Bi2MoO6 nanosheets with vacancy pairs for improved photocatalytic CO2 reduction. *Nano Energy*, **2019**, 61, 54-59	17.1	150
545	Atomic healing of defects in transition metal dichalcogenides. *Nano Letters*, **2015**, 15, 3524-32	11.5	147
544	Optimizing label-free DNA electrical detection on graphene platform. *Analytical Chemistry*, **2011**, 83, 2452-60	7.8	147
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542	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. *Joule*, **2020**, 4, 1035-1053	39.8	145
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540	Ultrafast charge transfer in MoS 2 /WSe 2 p□ Heterojunction. *2D Materials*, **2016**, 3, 025020	5.9	144

539	High-performance broadband photodetector using solution-processible PbSe-TiO(2)-graphene hybrids. *Advanced Materials*, **2012**, 24, 1697-702	24	141
538	Interface confined hydrogen evolution reaction in zero valent metal nanoparticles-intercalated molybdenum disulfide. *Nature Communications*, **2017**, 8, 14548	17.4	139
537	Highly photoluminescent two-dimensional imine-based covalent organic frameworks for chemical sensing. *Chemical Communications*, **2018**, 54, 2349-2352	5.8	138
536	Transforming Moir blisters into geometric graphene nano-bubbles. *Nature Communications*, **2012**, 3, 823	17.4	137
535	Chemically Exfoliated VSe Monolayers with Room-Temperature Ferromagnetism. *Advanced Materials*, **2019**, 31, e1903779	24	131
534	Polymer brushes on graphene. *Journal of the American Chemical Society*, **2011**, 133, 10490-8	16.4	129
533	Biosensing properties of diamond and carbon nanotubes. *Langmuir*, **2004**, 20, 5484-92	4	129
532	Energy storage studies on InVO4 as high performance anode material for Li-ion batteries. *ACS Applied Materials & Interfaces*, **2013**, 5, 7777-85	9.5	128
531	High-gain graphene-titanium oxide photoconductor made from inkjet printable ionic solution. *Advanced Materials*, **2010**, 22, 5265-70	24	126
530	Order-disorder transition in a two-dimensional boron-carbon-nitride alloy. *Nature Communications*, **2013**, 4, 2681	17.4	125
529	Polarized emission and optical waveguide in crystalline perylene diimide microwires. *Advanced Materials*, **2010**, 22, 3661-6	24	122
528	Lithium Silicide Surface Enrichment: A Solution to Lithium Metal Battery. *Advanced Materials*, **2018**, 30, e1801745	24	119
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526	Vector dissipative solitons in graphene mode locked fiber lasers. *Optics Communications*, **2010**, 283, 3334-3338	2	118
525	A non-dispersion strategy for large-scale production of ultra-high concentration graphene slurries in water. *Nature Communications*, **2018**, 9, 76	17.4	117
524	Removal of microcystin-LR and microcystin-RR by graphene oxide: adsorption and kinetic experiments. *Water Research*, **2013**, 47, 4621-9	12.5	116
523	Chemical Vapor Deposition of Large-Sized Hexagonal WSe Crystals on Dielectric Substrates. *Advanced Materials*, **2015**, 27, 6722-7	24	115
522	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. *Applied Physics Letters*, **2011**, 98, 193113	3.4	115

521	Chemical Stabilization of 1T' Phase Transition Metal Dichalcogenides with Giant Optical Kerr Nonlinearity. *Journal of the American Chemical Society*, **2017**, 139, 2504-2511	16.4	114
520	Molecular Beam Epitaxy of Highly Crystalline Monolayer Molybdenum Disulfide on Hexagonal Boron Nitride. *Journal of the American Chemical Society*, **2017**, 139, 9392-9400	16.4	110
519	Vector multi-soliton operation and interaction in a graphene mode-locked fiber laser. *Optics Express*, **2013**, 21, 10010-8	3.3	110
518	Using detonation nanodiamond for the specific capture of glycoproteins. *Analytical Chemistry*, **2008**, 80, 4659-65	7.8	110
517	Covalent Organic Framework with Frustrated Bonding Network for Enhanced Carbon Dioxide Storage. *Chemistry of Materials*, **2018**, 30, 1762-1768	9.6	109
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515	Gate-Tunable Giant Stark Effect in Few-Layer Black Phosphorus. *Nano Letters*, **2017**, 17, 1970-1977	11.5	106
514	In Situ Observation and Electrochemical Study of Encapsulated Sulfur Nanoparticles by MoS Flakes. *Journal of the American Chemical Society*, **2017**, 139, 10133-10141	16.4	106
513	Plasmon dispersion on epitaxial graphene studied using high-resolution electron energy-loss spectroscopy. *Physical Review B*, **2009**, 80,	3.3	106
512	Tandem catalysis of amines using porous graphene oxide. *Journal of the American Chemical Society*, **2015**, 137, 685-90	16.4	103
511	Microlandscaping of Au nanoparticles on few-layer MoS2 films for chemical sensing. *Small*, **2015**, 11, 1792-800	11	102
510	Clinical Applications of Carbon Nanomaterials in Diagnostics and Therapy. *Advanced Materials*, **2018**, 30, e1802368	24	100
509	Molten salt synthesis and energy storage studies on CuCo2O4 and CuO□Co3O4. *RSC Advances*, **2012**, 2, 9619	3.7	100
508	Li-cycling properties of molten salt method prepared nano/submicrometer and micrometer-sized CuO for lithium batteries. *ACS Applied Materials & Interfaces*, **2013**, 5, 4361-6	9.5	100
507	Toward high throughput interconvertible graphane-to-graphene growth and patterning. *ACS Nano*, **2010**, 4, 6146-52	16.7	100
506	Molecular-Beam Epitaxy of Two-Dimensional InSe and Its Giant Electroresistance Switching in Ferroresistive Memory Junction. *Nano Letters*, **2018**, 18, 6340-6346	11.5	100
505	Salicylideneanilines-Based Covalent Organic Frameworks as Chemoselective Molecular Sieves. *Journal of the American Chemical Society*, **2017**, 139, 8897-8904	16.4	99
504	Surface Functionalization of Black Phosphorus via Potassium toward High-Performance Complementary Devices. *Nano Letters*, **2017**, 17, 4122-4129	11.5	99

503	Graphene as atomic template and structural scaffold in the synthesis of graphene-organic hybrid wire with photovoltaic properties. *ACS Nano*, **2010**, 4, 6180-6	16.7	99
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499	Improved photoelectrical properties of MoS(2) films after laser micromachining. *ACS Nano*, **2014**, 8, 6334-43	16.7	94
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496	Graphene and Graphene-like Molecules: Prospects in Solar Cells. *Journal of the American Chemical Society*, **2016**, 138, 1095-102	16.4	93
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485	Unraveling the Potassium Storage Mechanism in Graphite Foam. *Advanced Energy Materials*, **2019**, 9, 1900579	21.8	86
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482	Compositional mapping of the argon–methane–hydrogen system for polycrystalline to nanocrystalline diamond film growth in a hot-filament chemical vapor deposition system. *Applied Physics Letters*, **2000**, 77, 2692-2694	3.4	84
481	An effective surface-enhanced Raman scattering template based on a Ag nanocluster-ZnO nanowire array. *Nanotechnology*, **2009**, 20, 175705	3.4	83
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474	The effect of post-annealing treatment on photoluminescence of ZnO nanorods prepared by hydrothermal synthesis. *Journal of Crystal Growth*, **2006**, 287, 157-161	1.6	80
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471	Self-Assembly and Selected Area Growth of Zinc Oxide Nanorods on Any Surface Promoted by an Aluminum Precoat. *Journal of Physical Chemistry B*, **2004**, 108, 11419-11425	3.4	76
470	Covalent-Organic-Framework-Based Li-CO Batteries. *Advanced Materials*, **2019**, 31, e1905879	24	75
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468	Tailoring pores in graphene-based materials: from generation to applications. *Journal of Materials Chemistry A*, **2017**, 5, 16537-16558	13	74

467	Tailoring sample-wide pseudo-magnetic fields on a graphene-black phosphorus heterostructure. *Nature Nanotechnology*, **2018**, 13, 828-834	28.7	74
466	Tunable Electrical Conductivity and Magnetic Property of the Two Dimensional Metal Organic Framework [Cu(TPyP)Cu2(O2CCH3)4]. *ACS Applied Materials & Interfaces*, **2016**, 8, 16154-9	9.5	72
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460	Engineering covalently bonded 2D layered materials by self-intercalation. *Nature*, **2020**, 581, 171-177	50.4	68
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458	Controlled growth of ultrathin Mo 2 C superconducting crystals on liquid Cu surface. *2D Materials*, **2017**, 4, 011012	5.9	67
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452	Bisanthracene bis(dicarboxylic imide)s as soluble and stable NIR dyes. *Chemistry - A European Journal*, **2009**, 15, 9299-302	4.8	65
451	Nickel–Cobalt Double Hydroxide as a Multifunctional Mediator for Ultrahigh-Rate and Ultralong-Life Li–S Batteries. *Advanced Energy Materials*, **2018**, 8, 1802431	21.8	64
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444	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. *Nature Communications*, **2014**, 5, 5461	17.4	61
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440	Function-oriented synthesis of two-dimensional (2D) covalent organic frameworks - from 3D solids to 2D sheets. *Chemical Society Reviews*, **2020**, 49, 4835-4866	58.5	60
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