

Ka Lun Michael Man

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,516
citations

331670

21
h-index

315739

38
g-index

50
all docs

50
docs citations

50
times ranked

2822
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the moiré exciton captured by imaging its electron and hole. Nature, 2022, 603, 247-252.	27.8	51
2	Unraveling the varied nature and roles of defects in hybrid halide perovskites with time-resolved photoemission electron microscopy. Energy and Environmental Science, 2021, 14, 6320-6328.	30.8	34
3	Experimental measurement of the intrinsic excitonic wave function. Science Advances, 2021, 7, .	10.3	49
4	Directly visualizing the momentum-forbidden dark excitons and their dynamics in atomically thin semiconductors. Science, 2020, 370, 1199-1204.	12.6	149
5	Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. Nature, 2020, 580, 360-366.	27.8	255
6	Improving Signal and Photobleaching Characteristics of Temporal Focusing Microscopy with the Increase in Pulse Repetition Rate. Methods and Protocols, 2019, 2, 65.	2.0	0
7	Visualizing the Creation and Healing of Traps in Perovskite Photovoltaic Films by Light Soaking and Passivation Treatments. , 2019, , .		1
8	High-Temperature Terahertz Optical Diode Effect without Magnetic Order in Polar FeZnMoO_8 . Physical Review Letters, 2018, 120, 037601.	3.2	360
9	Using coherent phonons for ultrafast control of the Dirac node of SrMnSb_2 . Physical Review B, 2018, 98, .	3.2	14
10	Pulling apart photoexcited electrons by photoinducing an in-plane surface electric field. Science Advances, 2018, 4, eaat9722.	10.3	29
11	Investigation of Trap States and Their Dynamics in Hybrid Organic-inorganic Mixed Cation Perovskite Films Using Time Resolved Photoemission Electron Microscopy. , 2018, , .		2
12	Ultrafast separation of photoexcited electron cloud. , 2018, , .		0
13	Fe on W(001) from continuous films to nanoparticles: Growth and magnetic domain structure. Physical Review B, 2017, 95, .	3.2	10
14	Terahertz-frequency magnetoelectric effect in Ni-doped $\text{CaBaCo}_4\text{O}_7$. Physical Review B, 2017, 96, .	3.2	12
15	Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. Journal of Applied Physics, 2017, 122, .	2.5	33
16	Imaging the motion of electrons across semiconductor heterojunctions. Nature Nanotechnology, 2017, 12, 36-40.	31.5	124
17	Imaging complex electron dynamics within a photoexcitation spot. , 2017, , .		0
18	Exploring Ultrafast Electron Dynamics in Space, Time, Momentum and Energy. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Optoelectronic properties in the terahertz of femtosecond-laser-ablated GaAs. , 2016, , .		0
20	Protecting the properties of monolayer MoS2 on silicon based substrates with an atomically thin buffer. Scientific Reports, 2016, 6, 20890.	3.3	64
21	Observing the interplay between surface and bulk optical nonlinearities in thin van der Waals crystals. Scientific Reports, 2016, 6, 22620.	3.3	42
22	Visualization of Electron Transport in 2D Semiconductor Heterojunctions. , 2016, , .		0
23	Engineering Photophenomena in Large, 3D Structures Composed of Self-Assembled van der Waals Heterostructure Flakes. Advanced Optical Materials, 2015, 3, 1551-1556.	7.3	17
24	Emergent photophenomena in three dimensional van der Waals heterostructures. , 2015, , .		0
25	Chemical Vapor Deposition Synthesized Atomically Thin Molybdenum Disulfide with Optoelectronic-Grade Crystalline Quality. ACS Nano, 2015, 9, 8822-8832.	14.6	132
26	Ultrafast properties of femtosecond-laser-ablated GaAs and its application to terahertz optoelectronics. Optics Letters, 2015, 40, 3388.	3.3	19
27	Fe ₃ S ₄ (greigite) formation by vapor-solid reaction. Journal of Materials Chemistry A, 2014, 2, 1903-1913.	10.3	19
28	Superdiffusive Motion of the Pb Wetting Layer on the Si(111) Surface. Physical Review Letters, 2013, 110, 036104.	7.8	21
29	Low energy electron microscopy and photoemission electron microscopy investigation of graphene. Journal of Physics Condensed Matter, 2012, 24, 314209.	1.8	18
30	C_{60} on the Pt(111) surface: Structural tuning of electronic properties. Physical Review B, 2011, 84, .	3.2	24
31	Nanophenomena at Surfaces. Springer Series in Surface Sciences, 2011, , .	0.3	8
32	Small-angle lattice rotations in graphene on Ru(0001). Physical Review B, 2011, 84, .	3.2	32
33	Quantum size effect driven thermal decomposition of Ag films on Fe(100) in the presence of pinhole-growth morphological defects. Physical Review B, 2010, 81, .	3.2	10
34	Anomalous Mass Transport in the Pb Wetting Layer on the Si(111) Surface. Physical Review Letters, 2008, 101, 226102.	7.8	37
35	Step line tension and step morphological evolution on the Si(111) $\sqrt{3} \times \sqrt{3}$ surface. Physical Review B, 2008, 77, .	3.2	34
36	Low-energy electron microscopy of CO/Pt(111) surface diffusion by nonequilibrium coverage profile evolution. Physical Review B, 2008, 78, .	3.2	27

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37	Kinetic length and step permeability on the Si(111) (1Å–1) surface. Surface Science, 2007, 601, 4669-4674.	1.9	19
38	Vibrational entropy-driven dealloying of Mo(100) and W(100) surface alloys. Surface Science, 2007, 601, L95-L101.	1.9	9
39	Kinetic regime of step motion on the Si(111) (1 Å– 1) surface. Surface and Interface Analysis, 2006, 38, 1632-1635.	1.8	5
40	Growth and oxidation of Cr films on the W(100) surface. Surface Science, 2006, 600, 1060-1070.	1.9	17
41	Formation kinetics of the Mo(100)-Agc(2Å–2)surface alloy. Physical Review B, 2006, 74, .	3.2	7
42	Kinetic Limitations in Electronic Growth of Ag Films on Fe(100). Physical Review Letters, 2004, 93, 236104.	7.8	33
43	Growth morphology, structure, and magnetism of ultrathin Co films on W(111). Physical Review B, 2003, 67, .	3.2	23
44	Growth shapes of Ag crystallites on the Si(111) surface. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 2492.	1.6	22
45	Spin polarized low energy electron microscopy investigations of magnetic transitions in Fe/Cu(100). Surface Science, 2001, 480, 163-172.	1.9	24
46	Modification of initial growth and magnetism in Fe/Cu(100). Physical Review B, 2001, 65, .	3.2	21
47	The miniature cylindrical mirror analyzer: A new tool for surface analysis. Review of Scientific Instruments, 2001, 72, 3362-3365.	1.3	6
48	Investigation of nanoscale energy transport with time-resolved photoemission electron microscopy. , 0, , 10-1-10-33.		3
49	Exploring Defects in Triple Cation Mixed Halide Perovskite Thin Films Using Time-Resolved Photoemission Electron Microscopy. , 0, , .		0
50	The varied nature and roles of nanoscale defects in solution processed triple cation mixed halide perovskite thin films. , 0, , .		0