

Ka Lun Michael Man

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/499229/publications.pdf>

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 | Performance-limiting nanoscale trap clusters at grain junctions in halide perovskites. <i>Nature</i> , 2020, 580, 360-366. | 27.8 | 255 |
| 2 | Directly visualizing the momentum-forbidden dark excitons and their dynamics in atomically thin semiconductors. <i>Science</i> , 2020, 370, 1199-1204. | 12.6 | 149 |
| 3 | Chemical Vapor Deposition Synthesized Atomically Thin Molybdenum Disulfide with Optoelectronic-Grade Crystalline Quality. <i>ACS Nano</i> , 2015, 9, 8822-8832. | 14.6 | 132 |
| 4 | Imaging the motion of electrons across semiconductor heterojunctions. <i>Nature Nanotechnology</i> , 2017, 12, 36-40. | 31.5 | 124 |
| 5 | Protecting the properties of monolayer MoS ₂ on silicon based substrates with an atomically thin buffer. <i>Scientific Reports</i> , 2016, 6, 20890. | 3.3 | 64 |
| 6 | High-Temperature Terahertz Optical Diode Effect without Magnetic Order in Polar FeZnMoO_8 . <i>Physical Review Letters</i> , 2018, 120, 037601. | 36.0 | 360 |
| 7 | Structure of the moiré exciton captured by imaging its electron and hole. <i>Nature</i> , 2022, 603, 247-252. | 27.8 | 51 |
| 8 | Experimental measurement of the intrinsic excitonic wave function. <i>Science Advances</i> , 2021, 7, . | 10.3 | 49 |
| 9 | Observing the interplay between surface and bulk optical nonlinearities in thin van der Waals crystals. <i>Scientific Reports</i> , 2016, 6, 22620. | 3.3 | 42 |
| 10 | Anomalous Mass Transport in the Pb Wetting Layer on the Si(111) Surface. <i>Physical Review Letters</i> , 2008, 101, 226102. | 7.8 | 37 |
| 11 | Step line tension and step morphological evolution on the Si(111) surface. <i>Physical Review B</i> , 2008, 77, . | 3.2 | 34 |
| 12 | Unraveling the varied nature and roles of defects in hybrid halide perovskites with time-resolved photoemission electron microscopy. <i>Energy and Environmental Science</i> , 2021, 14, 6320-6328. | 30.8 | 34 |
| 13 | Kinetic Limitations in Electronic Growth of Ag Films on Fe(100). <i>Physical Review Letters</i> , 2004, 93, 236104. | 7.8 | 33 |
| 14 | Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. <i>Journal of Applied Physics</i> , 2017, 122, . | 2.5 | 33 |
| 15 | Small-angle lattice rotations in graphene on Ru(0001). <i>Physical Review B</i> , 2011, 84, . | 3.2 | 32 |
| 16 | Pulling apart photoexcited electrons by photoinducing an in-plane surface electric field. <i>Science Advances</i> , 2018, 4, eaat9722. | 10.3 | 29 |
| 17 | Low-energy electron microscopy of CO/Pt(111) surface diffusion by nonequilibrium coverage profile evolution. <i>Physical Review B</i> , 2008, 78, . | 3.2 | 27 |
| 18 | Spin polarized low energy electron microscopy investigations of magnetic transitions in Fe/Cu(100). <i>Surface Science</i> , 2001, 480, 163-172. | 1.9 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | C_{60} on the Pt(111) surface: Structural tuning of electronic properties. Physical Review B, 2011, 84, . | 3.2 | 24 |
| 20 | Growth morphology, structure, and magnetism of ultrathin Co films on W(111). Physical Review B, 2003, 67, . | 3.2 | 23 |
| 21 | 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 |
| 22 | Modification of initial growth and magnetism in Fe/Cu(100). Physical Review B, 2001, 65, . | 3.2 | 21 |
| 23 | Superdiffusive Motion of the Pb Wetting Layer on the Si(111) Surface. Physical Review Letters, 2013, 110, 036104. | 7.8 | 21 |
| 24 | Kinetic length and step permeability on the Si(111) (1 \times 1) surface. Surface Science, 2007, 601, 4669-4674. | 1.9 | 19 |
| 25 | Fe ₃ S ₄ (greigite) formation by vapor-solid reaction. Journal of Materials Chemistry A, 2014, 2, 1903-1913. | 10.3 | 19 |
| 26 | Ultrafast properties of femtosecond-laser-ablated GaAs and its application to terahertz optoelectronics. Optics Letters, 2015, 40, 3388. | 3.3 | 19 |
| 27 | Low energy electron microscopy and photoemission electron microscopy investigation of graphene. Journal of Physics Condensed Matter, 2012, 24, 314209. | 1.8 | 18 |
| 28 | Growth and oxidation of Cr films on the W(100) surface. Surface Science, 2006, 600, 1060-1070. | 1.9 | 17 |
| 29 | 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 |
| 30 | Using coherent phonons for ultrafast control of the Dirac node of SrMnSb ₂ . Physical Review B, 2018, 98, . | 3.2 | 14 |
| 31 | Terahertz-frequency magnetoelectric effect in Ni-doped CaBaCo ₄ O ₇ . Physical Review B, 2017, 96, . | 3.2 | 12 |
| 32 | 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 |
| 33 | Fe on W(001) from continuous films to nanoparticles: Growth and magnetic domain structure. Physical Review B, 2017, 95, . | 3.2 | 10 |
| 34 | Vibrational entropy-driven dealloying of Mo(100) and W(100) surface alloys. Surface Science, 2007, 601, L95-L101. | 1.9 | 9 |
| 35 | Nanophenomena at Surfaces. Springer Series in Surface Sciences, 2011, , . | 0.3 | 8 |
| 36 | Formation kinetics of the Mo(100)-Agc(2 \times 2) surface alloy. Physical Review B, 2006, 74, . | 3.2 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | The miniature cylindrical mirror analyzer: A new tool for surface analysis. Review of Scientific Instruments, 2001, 72, 3362-3365. | 1.3 | 6 |
| 38 | Kinetic regime of step motion on the Si(111) (1 Å ⁻¹) surface. Surface and Interface Analysis, 2006, 38, 1632-1635. | 1.8 | 5 |
| 39 | Investigation of nanoscale energy transport with time-resolved photoemission electron microscopy. , 0, , 10-1-10-33. | | 3 |
| 40 | Investigation of Trap States and Their Dynamics in Hybrid Organic-inorganic Mixed Cation Perovskite Films Using Time Resolved Photoemission Electron Microscopy. , 2018, , . | | 2 |
| 41 | Visualizing the Creation and Healing of Traps in Perovskite Photovoltaic Films by Light Soaking and Passivation Treatments. , 2019, , . | | 1 |
| 42 | Emergent photophenomena in three dimensional van der Waals heterostructures. , 2015, , . | | 0 |
| 43 | Optoelectronic properties in the terahertz of femtosecond-laser-ablated GaAs. , 2016, , . | | 0 |
| 44 | 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 |
| 45 | Visualization of Electron Transport in 2D Semiconductor Heterojunctions. , 2016, , . | | 0 |
| 46 | Imaging complex electron dynamics within a photoexcitation spot. , 2017, , . | | 0 |
| 47 | Exploring Ultrafast Electron Dynamics in Space, Time, Momentum and Energy. , 2017, , . | | 0 |
| 48 | Ultrafast separation of photoexcited electron cloud. , 2018, , . | | 0 |
| 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 |