

Jessica L Mcchesney

List of Publications by Year in descending order

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60
papers

7,758
citations

126858

33
h-index

138417

58
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62
all docs

62
docs citations

62
times ranked

8835
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards wafer-size graphene layers by atmospheric pressure graphitization of silicon carbide. <i>Nature Materials</i> , 2009, 8, 203-207.	13.3	2,396
2	Interlayer Interaction and Electronic Screening in Multilayer Graphene Investigated with Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2007, 98, 206802.	2.9	678
3	Friction and Dissipation in Epitaxial Graphene Films. <i>Physical Review Letters</i> , 2009, 102, 086102.	2.9	482
4	Synthesis and characterization of atomically thin graphite films on a silicon carbide substrate. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 2172-2177.	1.9	423
5	Extended van Hove Singularity and Superconducting Instability in Doped Graphene. <i>Physical Review Letters</i> , 2010, 104, 136803.	2.9	294
6	Chains of gold atoms with tailored electronic states. <i>Physical Review B</i> , 2004, 69, .	1.1	252
7	Scanning tunneling spectroscopy of inhomogeneous electronic structure in monolayer and bilayer graphene on SiC. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	238
8	K-Doping Dependence of the Fermi Surface of the Iron-Arsenic BaFe_2As_2 Using Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2008, 101, 177005.	2.9	214
9	Fractional Band Filling in an Atomic Chain Structure. <i>Physical Review Letters</i> , 2003, 90, 176805.	2.9	210
10	Quasiparticle Transformation during a Metal-Insulator Transition in Graphene. <i>Physical Review Letters</i> , 2009, 103, 056404.	2.9	208
11	In situ doping control of the surface of high-temperature superconductors. <i>Nature Physics</i> , 2008, 4, 527-531.	6.5	175
12	Symmetry breaking in few layer graphene films. <i>New Journal of Physics</i> , 2007, 9, 385-385.	1.2	174
13	Epitaxial graphene: a new material. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 1436-1446.	0.7	173
14	Origin of the energy bandgap in epitaxial graphene. <i>Nature Materials</i> , 2008, 7, 258-259.	13.3	170
15	Morphology of graphene thin film growth on SiC(0001). <i>New Journal of Physics</i> , 2008, 10, 023034.	1.2	156
16	One-dimensional electronic states at surfaces. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 11097-11113.	0.7	106
17	Loss of nodal quasiparticle integrity in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$. <i>Nature Physics</i> , 2010, 6, 905-911.	6.5	103
18	Atomic scale memory at a silicon surface. <i>Nanotechnology</i> , 2002, 13, 499-502.	1.3	100

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19	A practical superconducting-microcalorimeter X-ray spectrometer for beamline and laboratory science. <i>Review of Scientific Instruments</i> , 2017, 88, 053108.	0.6	96
20	Experimental studies of the electronic structure of graphene. <i>Progress in Surface Science</i> , 2009, 84, 380-413.	3.8	75
21	Renormalization of graphene bands by many-body interactions. <i>Solid State Communications</i> , 2007, 143, 63-71.	0.9	67
22	Thermal decomposition of surfactant coatings on Co and Ni nanocrystals. <i>Applied Physics Letters</i> , 2003, 83, 5053-5055.	1.5	65
23	Electronic stabilization of a 5\AA -4dopant superlattice on $\text{Si}(111)5\text{\AA}$ -2 \AA Au. <i>Physical Review B</i> , 2004, 70, .	1.1	55
24	Doping of a surface band on $\text{Si}(111)3\text{\AA}$ -3 \AA Ag. <i>Physical Review B</i> , 2005, 72, .	1.1	55
25	Gd disilicide nanowires attached to $\text{Si}(111)$ steps. <i>Nanotechnology</i> , 2002, 13, 545-547.	1.3	52
26	Van Hove singularity and apparent anisotropy in the electron-phonon interaction in graphene. <i>Physical Review B</i> , 2008, 77, .	1.1	50
27	One-dimensional Gd-induced chain structures on $\text{Si}()$ surfaces. <i>Surface Science</i> , 2002, 498, L109-L112.	0.8	48
28	Surface Floating 2D Bands in Layered Nonsymmorphic Semimetals: ZrSiS and Related Compounds. <i>Physical Review X</i> , 2017, 7, .	2.8	48
29	Coupled Pb Chains on $\text{Si}(557)$: Origin of One-Dimensional Conductance. <i>Physical Review Letters</i> , 2008, 100, 076802.	2.9	47
30	Silicon adatoms on the $\text{Si}()5\text{\AA}$ -2 \AA Au surface. <i>Surface Science</i> , 2003, 532-535, 928-933.	0.8	38
31	Two-dimensional electron gas formed on the indium-adsorbed $\text{Si}(111)3\text{\AA}$ -3 \AA Au surface. <i>Physical Review B</i> , 2009, 80, .	1.1	38
32	Stepped Silicon Surfaces as Templates for One-Dimensional Nanostructures. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14484-14490.	1.2	37
33	Strictly one-dimensional electron system in Au chains on $\text{Ge}(001)$ revealed by photoelectron k -space mapping. <i>Physical Review B</i> , 2011, 83, .	1.1	37
34	Band structure and many body effects in graphene. <i>European Physical Journal: Special Topics</i> , 2007, 148, 5-13.	1.2	32
35	Band Engineering of Dirac Semimetals Using Charge Density Waves. <i>Advanced Materials</i> , 2021, 33, e2101591.	11.1	32
36	Detection and switching of the oxidation state of Fe in a self-assembled monolayer. <i>Surface Science</i> , 2005, 587, L191-L196.	0.8	29

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37	Fermi-Surface Topology and Helical Antiferromagnetism in Heavy Lanthanide Metals. Physical Review Letters, 2010, 104, 246401.	2.9	27
38	Low-dimensional electron gas at semiconductor surfaces. Solid State Communications, 2007, 142, 617-626.	0.9	26
39	Electronic properties of iron arsenic high temperature superconductors revealed by angle resolved photoemission spectroscopy (ARPES). Physica C: Superconductivity and Its Applications, 2009, 469, 491-497.	0.6	25
40	Photoemission Studies of Graphene on SiC: Growth, Interface, and Electronic Structure. , 2008, , 159-170.		24
41	Si(110)5Å—2Å~Au: A metallic chain structure. Physical Review B, 2005, 72, .	1.1	22
42	Unoccupied orbitals of 3d transition metals in ZnS. Physical Review B, 2004, 70, .	1.1	17
43	Quantum well and resonance-band split off in a K monolayer on Cu(111). Physical Review B, 2008, 77, .	1.1	16
44	The effect of spin-orbit coupling on nonsymmorphic square-net compounds. Journal of Physics and Chemistry of Solids, 2019, 128, 296-300.	1.9	16
45	Magnetic properties of Co/Rehcp(101Å~0)superlattices. Physical Review B, 1999, 59, 11897-11908.	1.1	15
46	High electrical conductivity in the epitaxial polar metals LaAuGe and LaPtSb. APL Materials, 2019, 7, .	2.2	15
47	Electronic structure of superconducting nickelates probed by resonant photoemission spectroscopy. Matter, 2022, 5, 1806-1815.	5.0	15
48	Orientation of fluorophenols on Si(111) by near edge x-ray absorption fine structure spectroscopy. Physical Review B, 2006, 73, .	1.1	14
49	The intermediate energy X-ray beamline at the APS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 746, 98-105.	0.7	12
50	The interaction of quasi-particles in graphene with chemical dopants. New Journal of Physics, 2010, 12, 125014.	1.2	10
51	CZT detectors fabricated from horizontal and vertical Bridgman-grown crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 458, 503-510.	0.7	9
52	Iodine orbital moment and chromium anisotropy contributions to CrI3 magnetism. Applied Physics Letters, 2020, 117, 022411.	1.5	8
53	Growth study of epitaxial Fe_xZn_{1-â~x}F₂ thin films. Journal of Materials Research, 2001, 16, 1769-1775.	1.2	6
54	Compensation and trapping in semi-insulating CdZnTe. , 1999, 3768, 115.		5

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55	Resonant Soft X-Ray Scattering from Stripe-Ordered LaO_2 Detected by a Transition-Edge Sensor Array Detector. <i>Physical Review Applied</i> , 2020, 13, .	0.8	5
56	Electronically enhanced layer buckling and Au-Au dimerization in epitaxial LaAuSb films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	5
57	Synchrotron studies of functional interfaces and the state of the art: A perspective. <i>Journal of Applied Physics</i> , 2021, 129, 220902.	1.1	4
58	<i>In situ</i> study on the evolution of atomic and electronic structure of LaTiO_3 system. <i>Physical Review Materials</i> , 2022, 6, .	0.9	3
59	The interaction of Xe and Xe+K with graphene. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 183, 118-124.	0.8	3
60	Search for $Q = 0$ Order near a Forbidden Bragg Position in $\text{Bi}_{2.1}\text{Sr}_{1.9}\text{CaCu}_2\text{O}_{8+x}$ with Resonant Soft X-ray Scattering. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 111007.	0.7	0