

Kathleen M McCreary

List of Publications by Year in descending order

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60
papers

4,321
citations

117453

34
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138251

58
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docs citations

61
times ranked

6165
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-Patterned Submicrometer Bi ₂ Se ₃ WS ₂ Pixels with Tunable Circular Polarization at Room Temperature. ACS Applied Materials & Interfaces, 2022, 14, 9504-9514.	4.0	2
2	Visualizing band structure hybridization and superlattice effects in twisted MoS ₂ /WS ₂ heterobilayers. 2D Materials, 2022, 9, 015032.	2.0	9
3	Nanoscale Optical Imaging of 2D Semiconductor Stacking Orders by Exciton-Enhanced Second Harmonic Generation. Advanced Optical Materials, 2022, 10, .	3.6	9
4	Probing Electronic Structures of Monolayer WSe ₂ Stacked with hBN Using Correlative Cathodoluminescence and Electron Energy-Loss Spectroscopy. Microscopy and Microanalysis, 2021, 27, 1174-1176.	0.2	1
5	Stacking-dependent optical properties in bilayer WSe ₂ . Nanoscale, 2021, 14, 147-156.	2.8	16
6	Continuous Wave Sum Frequency Generation and Imaging of Monolayer and Heterobilayer Two-Dimensional Semiconductors. ACS Nano, 2020, 14, 708-714.	7.3	41
7	Twist Angle-Dependent Atomic Reconstruction and Moiré Patterns in Transition Metal Dichalcogenide Heterostructures. ACS Nano, 2020, 14, 4550-4558.	7.3	172
8	Direct observation of minibands in a twisted graphene/WS ₂ bilayer. Science Advances, 2020, 6, eaay6104.	4.7	39
9	Synthesis of High-Quality Monolayer MoS ₂ by Direct Liquid Injection. ACS Applied Materials & Interfaces, 2020, 12, 9580-9588.	4.0	9
10	Prominent room temperature valley polarization in WS ₂ /graphene heterostructures grown by chemical vapor deposition. Applied Physics Letters, 2020, 116, .	1.5	25
11	Chemical Identification of Interlayer Contaminants within van der Waals Heterostructures. ACS Applied Materials & Interfaces, 2019, 11, 25578-25585.	4.0	43
12	Imaging microscopic electronic contrasts at the interface of single-layer WS ₂ with oxide and boron nitride substrates. Applied Physics Letters, 2019, 114, 151601.	1.5	14
13	Spatially Selective Enhancement of Photoluminescence in MoS ₂ by Exciton-Mediated Adsorption and Defect Passivation. ACS Applied Materials & Interfaces, 2019, 11, 16147-16155.	4.0	47
14	Ultrafast Carrier Dynamics of Monolayer WS ₂ via Broad-Band Time-Resolved Terahertz Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 30676-30683.	1.5	12
15	Resonant optical Stark effect in monolayer WS ₂ . Nature Communications, 2019, 10, 5539.	5.8	46
16	Quantum Calligraphy: Writing Single-Photon Emitters in a Two-Dimensional Materials Platform. ACS Nano, 2019, 13, 904-912.	7.3	80
17	Nano-Squeezing for the Creation of Clean 2D Material Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 10379-10387.	4.0	124
18	Spin relaxation and proximity effect in WS ₂ /graphene/fluorographene non-local spin valves. Carbon, 2018, 131, 18-25.	5.4	13

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19	Giant spin-splitting and gap renormalization driven by trions in single-layer WS ₂ /h-BN heterostructures. <i>Nature Physics</i> , 2018, 14, 355-359.	6.5	83
20	Electrical Characterization of Discrete Defects and Impact of Defect Density on Photoluminescence in Monolayer WS ₂ . <i>ACS Nano</i> , 2018, 12, 1793-1800.	7.3	106
21	Imaging spin dynamics in monolayer WS ₂ by time-resolved Kerr rotation microscopy. <i>2D Materials</i> , 2018, 5, 011010.	2.0	47
22	Double Indirect Interlayer Exciton in a MoSe ₂ /WSe ₂ van der Waals Heterostructure. <i>ACS Nano</i> , 2018, 12, 4719-4726.	7.3	160
23	A- and B-exciton photoluminescence intensity ratio as a measure of sample quality for transition metal dichalcogenide monolayers. <i>APL Materials</i> , 2018, 6, .	2.2	103
24	Understanding Variations in Circularly Polarized Photoluminescence in Monolayer Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2017, 11, 7988-7994.	7.3	56
25	Photoinduced Bandgap Renormalization and Exciton Binding Energy Reduction in WS ₂ . <i>ACS Nano</i> , 2017, 11, 12601-12608.	7.3	112
26	Graphene and monolayer transition-metal dichalcogenides: properties and devices. <i>Journal of Materials Research</i> , 2016, 31, 845-877.	1.2	15
27	Spatial Control of Photoluminescence at Room Temperature by Ferroelectric Domains in Monolayer WS ₂ /PZT Hybrid Structures. <i>ACS Omega</i> , 2016, 1, 1075-1080.	1.6	25
28	Auger Recombination in Chemical Vapor Deposition-Grown Monolayer WS ₂ . <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5242-5246.	2.1	85
29	Magnetoreflexion spectroscopy of monolayer transition-metal dichalcogenide semiconductors in pulsed magnetic fields. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, 04J102.	0.6	7
30	High room temperature optical polarization due to spin-valley coupling in monolayer WS ₂ . <i>AIP Advances</i> , 2016, 6, .	0.6	21
31	Anomalous temperature-dependent spin-valley polarization in monolayer WS ₂ . <i>Scientific Reports</i> , 2016, 6, 18885.	1.6	57
32	The Effect of Preparation Conditions on Raman and Photoluminescence of Monolayer WS ₂ . <i>Scientific Reports</i> , 2016, 6, 35154.	1.6	107
33	Synthesis of Large-Area WS ₂ monolayers with Exceptional Photoluminescence. <i>Scientific Reports</i> , 2016, 6, 19159.	1.6	153
34	Spatially Resolved Electronic Properties of Single-Layer WS ₂ on Transition Metal Oxides. <i>ACS Nano</i> , 2016, 10, 10058-10067.	7.3	31
35	Exciton diamagnetic shifts and valley Zeeman effects in monolayer WS ₂ and MoS ₂ to 65â€‰%Tesla. <i>Nature Communications</i> , 2016, 7, 10643.	5.8	253
36	Charge Trapping and Exciton Dynamics in Large-Area CVD Grown MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 5819-5826.	1.5	111

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37	Correlating spin transport and electrode magnetization in a graphene spin valve: Simultaneous magnetic microscopy and non-local measurements. <i>Applied Physics Letters</i> , 2015, 107, 142406.	1.5	5
38	Spin Coherence and Dephasing of Localized Electrons in Monolayer MoS ₂ . <i>Nano Letters</i> , 2015, 15, 8250-8254.	4.5	49
39	Optical detection of spin Hall effect in metals. <i>Applied Physics Letters</i> , 2014, 104, 172402.	1.5	32
40	Large Area Synthesis of Continuous and Uniform MoS ₂ Monolayer Films on Graphene. <i>Advanced Functional Materials</i> , 2014, 24, 6449-6454.	7.8	149
41	A graphene solution to conductivity mismatch: Spin injection from ferromagnetic metal/graphene tunnel contacts into silicon. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	10
42	A systematic approach to interpreting Hanle spin precession data in non-local spin valves. , 2013, , .		1
43	Integrating MBE materials with graphene to induce novel spin-based phenomena. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 04D105.	0.6	12
44	Effect of <i>in situ</i> deposition of Mg adatoms on spin relaxation in graphene. <i>Physical Review B</i> , 2013, 87, .	1.1	20
45	Magnetic Moment Formation in Graphene Detected by Scattering of Pure Spin Currents. <i>Physical Review Letters</i> , 2012, 109, 186604.	2.9	262
46	Spin Relaxation in Single-Layer Graphene with Tunable Mobility. <i>Nano Letters</i> , 2012, 12, 3443-3447.	4.5	53
47	Spin transport and relaxation in graphene. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 369-381.	1.0	128
48	Induced smectic phases in phase diagrams of binary nematic liquid crystal mixtures. <i>Journal of Chemical Physics</i> , 2011, 134, 124508.	1.2	11
49	Enhanced spin injection efficiency and extended spin lifetimes in graphene spin valves. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
50	Metallic and insulating adsorbates on graphene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	46
51	Tunneling Spin Injection into Single Layer Graphene. <i>Physical Review Letters</i> , 2010, 105, 167202.	2.9	422
52	Manipulation of Spin Transport in Graphene by Surface Chemical Doping. <i>Physical Review Letters</i> , 2010, 104, 187201.	2.9	168
53	Enhanced spin injection into single layer graphene with atomically smooth MgO barrier. , 2010, , .		0
54	Effect of cluster formation on graphene mobility. <i>Physical Review B</i> , 2010, 81, .	1.1	143

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55	Electrical detection of spin precession in single layer graphene spin valves with transparent contacts. Applied Physics Letters, 2009, 94, .	1.5	141
56	Spin transport in graphite and graphene spin valves. Proceedings of SPIE, 2009, , .	0.8	8
57	Electron-Hole Asymmetry of Spin Injection and Transport in Single-Layer Graphene. Physical Review Letters, 2009, 102, 137205.	2.9	130
58	Electronic doping and scattering by transition metals on graphene. Physical Review B, 2009, 80, .	1.1	245
59	Bias and gate control of graphene spin valves. , 2009, , .		0
60	Growth of atomically smooth MgO films on graphene by molecular beam epitaxy. Applied Physics Letters, 2008, 93, .	1.5	43