

Roland K Kawakami

List of Publications by Citations

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119
papers

7,491
citations

43
h-index

86
g-index

133
ext. papers

8,464
ext. citations

7
avg, IF

5.95
L-index

#	Paper	IF	Citations
119	Graphene spintronics. <i>Nature Nanotechnology</i> , 2014 , 9, 794-807	28.7	985
118	Tunneling spin injection into single layer graphene. <i>Physical Review Letters</i> , 2010 , 105, 167202	7.4	378
117	Room Temperature Intrinsic Ferromagnetism in Epitaxial Manganese Selenide Films in the Monolayer Limit. <i>Nano Letters</i> , 2018 , 18, 3125-3131	11.5	353
116	Giant planar Hall effect in epitaxial (Ga,Mn)As devices. <i>Physical Review Letters</i> , 2003 , 90, 107201	7.4	347
115	Control of Schottky barriers in single layer MoS ₂ transistors with ferromagnetic contacts. <i>Nano Letters</i> , 2013 , 13, 3106-10	11.5	289
114	Spin relaxation in single-layer and bilayer graphene. <i>Physical Review Letters</i> , 2011 , 107, 047207	7.4	289
113	2-dimensional transition metal dichalcogenides with tunable direct band gaps: MoS ₂ and Se ₂ monolayers. <i>Advanced Materials</i> , 2014 , 26, 1399-404	24	282
112	Magnetic moment formation in graphene detected by scattering of pure spin currents. <i>Physical Review Letters</i> , 2012 , 109, 186604	7.4	227
111	Electronic doping and scattering by transition metals on graphene. <i>Physical Review B</i> , 2009 , 80,	3.3	218
110	Symmetry-Induced Magnetic Anisotropy in Fe Films Grown on Stepped Ag(001). <i>Physical Review Letters</i> , 1996 , 77, 2570-2573	7.4	195
109	Observing atomic collapse resonances in artificial nuclei on graphene. <i>Science</i> , 2013 , 340, 734-7	33.3	175
108	(Ga,Mn)As as a digital ferromagnetic heterostructure. <i>Applied Physics Letters</i> , 2000 , 77, 2379-2381	3.4	162
107	Manipulation of spin transport in graphene by surface chemical doping. <i>Physical Review Letters</i> , 2010 , 104, 187201	7.4	144
106	Electrical spin injection and transport in germanium. <i>Physical Review B</i> , 2011 , 84,	3.3	141
105	Integration of the ferromagnetic insulator EuO onto graphene. <i>ACS Nano</i> , 2012 , 6, 10063-9	16.7	134
104	Opto-Valleytronic Spin Injection in Monolayer MoS ₂ /Few-Layer Graphene Hybrid Spin Valves. <i>Nano Letters</i> , 2017 , 17, 3877-3883	11.5	131
103	Electrical detection of spin precession in single layer graphene spin valves with transparent contacts. <i>Applied Physics Letters</i> , 2009 , 94, 222109	3.4	122

102	Effect of cluster formation on graphene mobility. <i>Physical Review B</i> , 2010 , 81,	3.3	120
101	Nanospintronics Based on Magnetologic Gates. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 259-262	2.9	118
100	Spin-polarized Zener tunneling in (Ga,Mn)As. <i>Physical Review B</i> , 2002 , 65,	3.3	117
99	Electron-hole asymmetry of spin injection and transport in single-layer graphene. <i>Physical Review Letters</i> , 2009 , 102, 137205	7.4	113
98	Quantum-well states in copper thin films. <i>Nature</i> , 1999 , 398, 132-134	50.4	108
97	Ferromagnetic imprinting of nuclear spins in semiconductors. <i>Science</i> , 2001 , 294, 131-4	33.3	101
96	Investigating the origin of Fermi level pinning in Ge Schottky junctions using epitaxially grown ultrathin MgO films. <i>Applied Physics Letters</i> , 2010 , 96, 102103	3.4	96
95	Effect of atomic steps on the magnetic anisotropy in vicinal Co/Cu(001). <i>Physical Review B</i> , 1998 , 58, R5924-R5927	3.3	95
94	Measuring the Casimir force gradient from graphene on a SiO ₂ substrate. <i>Physical Review B</i> , 2013 , 87,	3.3	86
93	The Effect of Preparation Conditions on Raman and Photoluminescence of Monolayer WS. <i>Scientific Reports</i> , 2016 , 6, 35154	4.9	82
92	The 2020 magnetism roadmap. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 453001	3	77
91	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	16.2	63
90	Negative intrinsic resistivity of an individual domain wall in epitaxial (Ga,Mn)As microdevices. <i>Nature</i> , 2004 , 431, 52-6	50.4	61
89	Controlled argon beam-induced desulfurization of monolayer molybdenum disulfide. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 252201	1.8	58
88	Strong Modulation of Spin Currents in Bilayer Graphene by Static and Fluctuating Proximity Exchange Fields. <i>Physical Review Letters</i> , 2017 , 118, 187201	7.4	56
87	Facile growth of monolayer MoS ₂ film areas on SiO ₂ . <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	56
86	Van der Waals heterostructures for spintronics and opto-spintronics. <i>Nature Nanotechnology</i> , 2021 , 16, 856-868	28.7	56
85	Determination of the Magnetic Coupling in the Co/Cu/Co(100) System with Momentum-Resolved Quantum Well States. <i>Physical Review Letters</i> , 1999 , 82, 4098-4101	7.4	55

84	Experimental Demonstration of xor Operation in Graphene Magnetologic Gates at Room Temperature. <i>Physical Review Applied</i> , 2016 , 5,	4.3	51
83	Spin relaxation in single-layer graphene with tunable mobility. <i>Nano Letters</i> , 2012 , 12, 3443-7	11.5	51
82	90° Magnetization Switching in Thin Fe Films Grown on Stepped Cr(001). <i>Physical Review Letters</i> , 1998 , 81, 2144-2147	7.4	50
81	Curie Temperature Enhancement and Induced Pd Magnetic Moments for Ultrathin Fe Films Grown on Stepped Pd(001). <i>Physical Review Letters</i> , 1999 , 82, 1947-1950	7.4	46
80	Epitaxial EuO thin films on GaAs. <i>Applied Physics Letters</i> , 2010 , 97, 112509	3.4	45
79	fcc Fe films grown on a ferromagnetic fcc Co(100) substrate. <i>Physical Review B</i> , 1996 , 54, 4155-4158	3.3	45
78	Observation of the Quantum Well Interference in Magnetic Nanostructures by Photoemission. <i>Physical Review Letters</i> , 1998 , 80, 1754-1757	7.4	43
77	Metallic and insulating adsorbates on graphene. <i>Applied Physics Letters</i> , 2011 , 98, 192101	3.4	42
76	Strong and Tunable Spin-Lifetime Anisotropy in Dual-Gated Bilayer Graphene. <i>Physical Review Letters</i> , 2018 , 121, 127703	7.4	42
75	Spin inversion in graphene spin valves by gate-tunable magnetic proximity effect at one-dimensional contacts. <i>Nature Communications</i> , 2018 , 9, 2869	17.4	40
74	Growth of atomically smooth MgO films on graphene by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2008 , 93, 183107	3.4	40
73	Molecular beam epitaxy of 2D-layered gallium selenide on GaN substrates. <i>Journal of Applied Physics</i> , 2017 , 121, 094302	2.5	38
72	Large area epitaxial germanane for electronic devices. <i>2D Materials</i> , 2015 , 2, 035012	5.9	36
71	Graphene spintronics: Spin injection and proximity effects from first principles. <i>Physical Review B</i> , 2014 , 90,	3.3	35
70	Imaging spin dynamics in monolayer WS ₂ by time-resolved Kerr rotation microscopy. <i>2D Materials</i> , 2018 , 5, 011010	5.9	34
69	Chiral bobbers and skyrmions in epitaxial FeGe/Si(111) films. <i>Physical Review Materials</i> , 2018 , 2,	3.2	34
68	Nanosecond spin relaxation times in single layer graphene spin valves with hexagonal boron nitride tunnel barriers. <i>Applied Physics Letters</i> , 2016 , 109, 122411	3.4	33
67	NaSnAs: An Exfoliatable Layered van der Waals Zintl Phase. <i>ACS Nano</i> , 2016 , 10, 9500-9508	16.7	33

66	Room-temperature electric-field controlled ferromagnetism in Mn _{0.05} Ge _{0.95} quantum dots. <i>ACS Nano</i> , 2010 , 4, 4948-54	16.7	32
65	Spectroscopic evaluation of charge-transfer doping and strain in graphene/MoS ₂ heterostructures. <i>Physical Review B</i> , 2019 , 99,	3.3	31
64	Engineering of tunnel junctions for prospective spin injection in germanium. <i>Applied Physics Letters</i> , 2009 , 94, 242104	3.4	26
63	Contact induced spin relaxation in graphene spin valves with Al ₂ O ₃ and MgO tunnel barriers. <i>APL Materials</i> , 2016 , 4, 032503	5.7	26
62	Spatially Resolved Electronic Properties of Single-Layer WS on Transition Metal Oxides. <i>ACS Nano</i> , 2016 , 10, 10058-10067	16.7	25
61	Epitaxial co-deposition growth of CaGe ₂ films by molecular beam epitaxy for large area germanane. <i>Journal of Materials Research</i> , 2014 , 29, 410-416	2.5	24
60	Propagation dynamics of individual domain walls in Ga _{1-x} Mn _x As microdevices. <i>Physical Review B</i> , 2006 , 74,	3.3	24
59	Magnetic proximity effect in Pt/CoFe ₂ O ₄ bilayers. <i>Physical Review Materials</i> , 2018 , 2,	3.2	23
58	Oscillatory spin polarization and magneto-optical Kerr effect in Fe ₃ O ₄ thin films on GaAs(001). <i>Physical Review Letters</i> , 2010 , 105, 167203	7.4	19
57	Magnetically Assembled Multiwalled Carbon Nanotubes on Ferromagnetic Contacts. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19818-19824	3.4	17
56	Correlation of electrical spin injection and non-linear charge-transport in Fe/MgO/Si. <i>Applied Physics Letters</i> , 2013 , 103, 012402	3.4	16
55	Strontium Oxide Tunnel Barriers for High Quality Spin Transport and Large Spin Accumulation in Graphene. <i>Nano Letters</i> , 2017 , 17, 7578-7585	11.5	16
54	Molecular beam epitaxy growth of [CrGe/MnGe/FeGe] superlattices: Toward artificial B20 skyrmion materials with tunable interactions. <i>Journal of Crystal Growth</i> , 2017 , 467, 38-46	1.6	15
53	Magnetic phases of thin Fe films grown on stepped Cr(001). <i>Physical Review B</i> , 1999 , 59, 11892-11896	3.3	15
52	Magnetic properties of ultrathin Fe films grown on stepped W(001) and Pd(001) substrates. <i>Journal of Applied Physics</i> , 1999 , 85, 4958-4960	2.5	15
51	Spin amplification by controlled symmetry breaking for spin-based logic. <i>2D Materials</i> , 2015 , 2, 034001	5.9	14
50	Epitaxial growth of cobalt doped TiO ₂ thin films on LaAlO ₃ (100) substrate by molecular beam epitaxy and their opto-magnetic based applications. <i>Applied Surface Science</i> , 2019 , 493, 691-702	6.7	13
49	Inversion of ferromagnetic proximity polarization by MgO interlayers. <i>Physical Review Letters</i> , 2008 , 100, 237205	7.4	13

48	Spatially resolving density-dependent screening around a single charged atom in graphene. <i>Physical Review B</i> , 2017 , 95,	3.3	12
47	Spin polarization of Co(0001)/graphene junctions from first principles. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 104204	1.8	12
46	Step-induced magnetic anisotropy in Co/stepped Cu(001) as a function of step density and Cu step decoration. <i>Journal of Applied Physics</i> , 1999 , 85, 4955-4957	2.5	11
45	Electronic structure of exfoliated and epitaxial hexagonal boron nitride. <i>Physical Review Materials</i> , 2018 , 2,	3.2	11
44	Magnetization dynamics of cobalt grown on graphene. <i>Journal of Applied Physics</i> , 2014 , 115, 17C510	2.5	10
43	Magnetic coupling in Co/face-centered-cubic Fe/Co sandwiches. <i>Journal of Applied Physics</i> , 1996 , 79, 4532	2.5	9
42	Structural and magnetic properties of face-centered-cubic Fe films grown on Co(100). <i>Journal of Applied Physics</i> , 1996 , 79, 4964	2.5	9
41	Growth of uniform CaGe ₂ films by alternating layer molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2017 , 460, 134-138	1.6	8
40	Modeling the oblique spin precession in lateral spin valves for accurate determination of the spin lifetime anisotropy: Effect of finite contact resistance and channel length. <i>Physical Review B</i> , 2018 , 97,	3.3	8
39	Direct comparison of graphene devices before and after transfer to different substrates. <i>Applied Physics Letters</i> , 2014 , 104, 033103	3.4	8
38	Large-area SnSe ₂ /GaN heterojunction diodes grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2017 , 111, 202101	3.4	7
37	Ferromagnetic Resonance Spin Pumping and Electrical Spin Injection in Silicon-Based Metal-Oxide-Semiconductor Heterostructures. <i>Physical Review Letters</i> , 2015 , 115, 246602	7.4	7
36	Importance of Paramagnetic Background Subtraction for Determining the Magnetic Moment in Epitaxially Grown Ultrathin van der Waals Magnets. <i>IEEE Magnetism Letters</i> , 2018 , 9, 1-5	1.6	7
35	Probing tunneling spin injection into graphene via bias dependence. <i>Physical Review B</i> , 2018 , 98,	3.3	6
34	Uniform large-area growth of nanotemplated high-quality monolayer MoS ₂ . <i>Applied Physics Letters</i> , 2017 , 110, 263103	3.4	6
33	Magnetic interlayer coupling between Co films across Cu/Ni ₃₀ Cu ₇₀ /Cu(100) double quantum wells. <i>Physical Review B</i> , 2000 , 61, 76-79	3.3	6
32	Suppression of magnetic ordering in Fe-deficient Fe _{3-x} GeTe ₂ from application of pressure. <i>Physical Review B</i> , 2020 , 102,	3.3	6
31	Synthesis, Magnetic Properties, and Electronic Structure of Magnetic Topological Insulator MnBiSe. <i>Nano Letters</i> , 2021 , 21, 5083-5090	11.5	6

30	Transport Spectroscopy of Sublattice-Resolved Resonant Scattering in Hydrogen-Doped Bilayer Graphene. <i>Physical Review Letters</i> , 2018 , 121, 136801	7.4	6
29	Current-based detection of nonlocal spin transport in graphene for spin-based logic applications. <i>Journal of Applied Physics</i> , 2014 , 115, 17B741	2.5	5
28	Interface formation of epitaxial MgO/Co ₂ MnSi(001) structures: Elemental segregation and oxygen migration. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 444, 383-389	2.8	5
27	Magnetic phases of fcc Fe films in the 5-11 monolayer thickness range. <i>Physical Review B</i> , 1998 , 58, 93-96	3.3	5
26	Ultrafast Spin Crossover in a Room-Temperature Ferrimagnet: Element-Specific Spin Dynamics in Photoexcited Cobalt Ferrite. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11368-11375	3.8	4
25	Molecular beam epitaxy growth of SrO buffer layers on graphite and graphene for the integration of complex oxides. <i>Journal of Crystal Growth</i> , 2016 , 447, 5-12	1.6	4
24	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	3.4	4
23	Optically patterned nuclear doughnuts in GaAs/MnAs heterostructures. <i>Applied Physics Letters</i> , 2004 , 85, 1184-1186	3.4	4
22	Spin Absorption by In Situ Deposited Nanoscale Magnets on Graphene Spin Valves. <i>Physical Review Applied</i> , 2018 , 10,	4.3	4
21	Topological Dirac semimetal Na ₃ Bi films in the ultrathin limit via alternating layer molecular beam epitaxy. <i>APL Materials</i> , 2018 , 6, 086103	5.7	3
20	Role of film roughness and interdiffusion in the formation of nonferromagnetic fcc Fe in the Fe/Co(100) system. <i>Journal of Applied Physics</i> , 1997 , 81, 4714-4716	2.5	3
19	Modification of the magnetic properties of Fe/Cr(001) by controlling the compensation of a vicinal Cr(001) surface. <i>Journal of Applied Physics</i> , 1999 , 85, 4961-4963	2.5	3
18	Imaging of Magnetic Textures in Polycrystalline FeGe Thin Films via in-situ Lorentz Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1700-1702	0.5	3
17	Microscopy of hydrogen and hydrogen-vacancy defect structures on graphene devices. <i>Physical Review B</i> , 2018 , 98,	3.3	3
16	Determining Surface Terminations and Chirality of Noncentrosymmetric FeGe Thin Films via Scanning Tunneling Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9896-9901	9.5	2
15	Exchange-Driven Spin Relaxation in Ferromagnet-Oxide-Semiconductor Heterostructures. <i>Physical Review Letters</i> , 2016 , 116, 107201	7.4	2
14	Effect of interfacial roughness on the phase of quantum well states in Cu/Co(001) and Cu/Ni(001) systems. <i>Physical Review B</i> , 2000 , 62, 6561-6564	3.3	2
13	Chemical migration and dipole formation at van der Waals interfaces between magnetic transition metal chalcogenides and topological insulators. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2

12	Spin-Orbit Torque in Bilayers of Kagome Ferromagnet FeSn and Pt. <i>Nano Letters</i> , 2021 , 21, 6975-6982	11.5	2
11	Investigation of Antiphase Domain Boundaries in Cobalt Ferrite Thin Films via High Resolution Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2020 , 26, 972-974	0.5	1
10	Spatial Frequency Selection in Lorentz 4D-Scanning Transmission Electron Microscopy Reconstruction. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1902-1905	0.5	1
9	Ultrafast Optical Spin Switching in Ferrimagnetic Nickel Ferrite (NiFe ₂ O ₄) Studied by XUV Reflection Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 2669-2678	3.8	1
8	Atomic-scale visualization of topological spin textures in the chiral magnet MnGe. <i>Science</i> , 2021 , 374, 1484-1487	33.3	1
7	Extracting weak magnetic contrast from complex background contrast in plan-view FeGe thin films. <i>Ultramicroscopy</i> , 2022 , 232, 113395	3.1	0
6	Direct imaging of skyrmion in plan-view of a polycrystalline FeGe thin film. <i>Microscopy and Microanalysis</i> , 2021 , 27, 232-233	0.5	0
5	Structural and Magnetic Characterization of B20 Skyrmion Thin Films and Heterostructures Using Aberration-Corrected Lorentz TEM and Differential Phase Contrast STEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1732-1733	0.5	
4	In Situ Lorentz Differential Phase Contrast STEM Characterization of Rashba Interaction on Skyrmion Thin Films. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1900-1901	0.5	
3	Investigation of Spin Manipulation in Pt/CoFe ₂ O ₄ via Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 958-959	0.5	
2	Focused Ion Beam Prepared Cross-Sectional Transmission Electron Microscopy Preparation On CaGe ₂ On Ge(111) Grown By Molecular Beam Epitaxy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 290-291	0.5	
1	High Resolution Scanning Transmission Electron Microscopy of Normal and Inverse Spinel Regions in Epitaxially Grown CoFe ₂ O ₄ . <i>Microscopy and Microanalysis</i> , 2018 , 24, 70-71	0.5	