

Roland K Kawakami

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7298278/roland-k-kawakami-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
118	Extracting weak magnetic contrast from complex background contrast in plan-view FeGe thin films. <i>Ultramicroscopy</i> , 2022 , 232, 113395	3.1	0
117	Atomic-scale visualization of topological spin textures in the chiral magnet MnGe.. <i>Science</i> , 2021 , 374, 1484-1487	33.3	1
116	Synthesis, Magnetic Properties, and Electronic Structure of Magnetic Topological Insulator MnBiSe. <i>Nano Letters</i> , 2021 , 21, 5083-5090	11.5	6
115	Van der Waals heterostructures for spintronics and opto-spintronics. <i>Nature Nanotechnology</i> , 2021 , 16, 856-868	28.7	56
114	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
113	Spin-Orbit Torque in Bilayers of Kagome Ferromagnet FeSn and Pt. <i>Nano Letters</i> , 2021 , 21, 6975-6982	11.5	2
112	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
111	Spatial Frequency Selection in Lorentz 4D-Scanning Transmission Electron Microscopy Reconstruction. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1902-1905	0.5	1
110	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
109	The 2020 magnetism roadmap. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 453001	3	77
108	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
107	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
106	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
105	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
104	Spectroscopic evaluation of charge-transfer doping and strain in graphene/MoS ₂ heterostructures. <i>Physical Review B</i> , 2019 , 99,	3.3	31
103	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

102	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	
101	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
100	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
99	Imaging spin dynamics in monolayer WS ₂ by time-resolved Kerr rotation microscopy. <i>2D Materials</i> , 2018 , 5, 011010	5.9	34
98	Room Temperature Intrinsic Ferromagnetism in Epitaxial Manganese Selenide Films in the Monolayer Limit. <i>Nano Letters</i> , 2018 , 18, 3125-3131	11.5	353
97	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
96	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	
95	Probing tunneling spin injection into graphene via bias dependence. <i>Physical Review B</i> , 2018 , 98,	3.3	6
94	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
93	Magnetic proximity effect in Pt/CoFe ₂ O ₄ bilayers. <i>Physical Review Materials</i> , 2018 , 2,	3.2	23
92	Chiral bobbers and skyrmions in epitaxial FeGe/Si(111) films. <i>Physical Review Materials</i> , 2018 , 2,	3.2	34
91	Electronic structure of exfoliated and epitaxial hexagonal boron nitride. <i>Physical Review Materials</i> , 2018 , 2,	3.2	11
90	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	
89	Strong and Tunable Spin-Lifetime Anisotropy in Dual-Gated Bilayer Graphene. <i>Physical Review Letters</i> , 2018 , 121, 127703	7.4	42
88	Transport Spectroscopy of Sublattice-Resolved Resonant Scattering in Hydrogen-Doped Bilayer Graphene. <i>Physical Review Letters</i> , 2018 , 121, 136801	7.4	6
87	Spin Absorption by In Situ Deposited Nanoscale Magnets on Graphene Spin Valves. <i>Physical Review Applied</i> , 2018 , 10,	4.3	4
86	Microscopy of hydrogen and hydrogen-vacancy defect structures on graphene devices. <i>Physical Review B</i> , 2018 , 98,	3.3	3
85	Importance of Paramagnetic Background Subtraction for Determining the Magnetic Moment in Epitaxially Grown Ultrathin van der Waals Magnets. <i>IEEE Magnetics Letters</i> , 2018 , 9, 1-5	1.6	7

84	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
83	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
82	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
81	Molecular beam epitaxy of 2D-layered gallium selenide on GaN substrates. <i>Journal of Applied Physics</i> , 2017 , 121, 094302	2.5	38
80	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	
79	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
78	Spatially resolving density-dependent screening around a single charged atom in graphene. <i>Physical Review B</i> , 2017 , 95,	3.3	12
77	Large-area SnSe ₂ /GaN heterojunction diodes grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2017 , 111, 202101	3.4	7
76	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
75	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
74	Uniform large-area growth of nanotemplated high-quality monolayer MoS ₂ . <i>Applied Physics Letters</i> , 2017 , 110, 263103	3.4	6
73	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	
72	Experimental Demonstration of xor Operation in Graphene Magnetologic Gates at Room Temperature. <i>Physical Review Applied</i> , 2016 , 5,	4.3	51
71	Exchange-Driven Spin Relaxation in Ferromagnet-Oxide-Semiconductor Heterostructures. <i>Physical Review Letters</i> , 2016 , 116, 107201	7.4	2
70	The Effect of Preparation Conditions on Raman and Photoluminescence of Monolayer WS ₂ . <i>Scientific Reports</i> , 2016 , 6, 35154	4.9	82
69	Spatially Resolved Electronic Properties of Single-Layer WS ₂ on Transition Metal Oxides. <i>ACS Nano</i> , 2016 , 10, 10058-10067	16.7	25
68	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
67	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

66	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
65	NaSnAs: An Exfoliatable Layered van der Waals Zintl Phase. <i>ACS Nano</i> , 2016 , 10, 9500-9508	16.7	33
64	Spin amplification by controlled symmetry breaking for spin-based logic. <i>2D Materials</i> , 2015 , 2, 034001	5.9	14
63	Large area epitaxial germanane for electronic devices. <i>2D Materials</i> , 2015 , 2, 035012	5.9	36
62	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
61	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
60	2-dimensional transition metal dichalcogenides with tunable direct band gaps: MoS ₂ /Se ₂ monolayers. <i>Advanced Materials</i> , 2014 , 26, 1399-404	24	282
59	Magnetization dynamics of cobalt grown on graphene. <i>Journal of Applied Physics</i> , 2014 , 115, 17C510	2.5	10
58	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
57	Graphene spintronics: Spin injection and proximity effects from first principles. <i>Physical Review B</i> , 2014 , 90,	3.3	35
56	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
55	Graphene spintronics. <i>Nature Nanotechnology</i> , 2014 , 9, 794-807	28.7	985
54	Direct comparison of graphene devices before and after transfer to different substrates. <i>Applied Physics Letters</i> , 2014 , 104, 033103	3.4	8
53	Spin polarization of Co(0001)/graphene junctions from first principles. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 104204	1.8	12
52	Measuring the Casimir force gradient from graphene on a SiO ₂ substrate. <i>Physical Review B</i> , 2013 , 87,	3.3	86
51	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
50	Observing atomic collapse resonances in artificial nuclei on graphene. <i>Science</i> , 2013 , 340, 734-7	33.3	175
49	Facile growth of monolayer MoS ₂ film areas on SiO ₂ . <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	56

48	Control of Schottky barriers in single layer MoS2 transistors with ferromagnetic contacts. <i>Nano Letters</i> , 2013 , 13, 3106-10	11.5	289
47	Controlled argon beam-induced desulfurization of monolayer molybdenum disulfide. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 252201	1.8	58
46	Magnetic moment formation in graphene detected by scattering of pure spin currents. <i>Physical Review Letters</i> , 2012 , 109, 186604	7.4	227
45	Integration of the ferromagnetic insulator EuO onto graphene. <i>ACS Nano</i> , 2012 , 6, 10063-9	16.7	134
44	Spin relaxation in single-layer graphene with tunable mobility. <i>Nano Letters</i> , 2012 , 12, 3443-7	11.5	51
43	Nanospintronics Based on Magnetologic Gates. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 259-262	2.9	118
42	Spin relaxation in single-layer and bilayer graphene. <i>Physical Review Letters</i> , 2011 , 107, 047207	7.4	289
41	Electrical spin injection and transport in germanium. <i>Physical Review B</i> , 2011 , 84,	3.3	141
40	Metallic and insulating adsorbates on graphene. <i>Applied Physics Letters</i> , 2011 , 98, 192101	3.4	42
39	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
38	Epitaxial EuO thin films on GaAs. <i>Applied Physics Letters</i> , 2010 , 97, 112509	3.4	45
37	Oscillatory spin polarization and magneto-optical Kerr effect in FeO thin films on GaAs(001). <i>Physical Review Letters</i> , 2010 , 105, 167203	7.4	19
36	Effect of cluster formation on graphene mobility. <i>Physical Review B</i> , 2010 , 81,	3.3	120
35	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
34	Tunneling spin injection into single layer graphene. <i>Physical Review Letters</i> , 2010 , 105, 167202	7.4	378
33	Manipulation of spin transport in graphene by surface chemical doping. <i>Physical Review Letters</i> , 2010 , 104, 187201	7.4	144
32	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
31	Engineering of tunnel junctions for prospective spin injection in germanium. <i>Applied Physics Letters</i> , 2009 , 94, 242104	3.4	26

30	Electron-hole asymmetry of spin injection and transport in single-layer graphene. <i>Physical Review Letters</i> , 2009 , 102, 137205	7.4	113
29	Electronic doping and scattering by transition metals on graphene. <i>Physical Review B</i> , 2009 , 80,	3.3	218
28	Growth of atomically smooth MgO films on graphene by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2008 , 93, 183107	3.4	40
27	Inversion of ferromagnetic proximity polarization by MgO interlayers. <i>Physical Review Letters</i> , 2008 , 100, 237205	7.4	13
26	Propagation dynamics of individual domain walls in Ga _{1-x} Mn _x As microdevices. <i>Physical Review B</i> , 2006 , 74,	3.3	24
25	Optically patterned nuclear doughnuts in GaAs/MnAs heterostructures. <i>Applied Physics Letters</i> , 2004 , 85, 1184-1186	3.4	4
24	Negative intrinsic resistivity of an individual domain wall in epitaxial (Ga,Mn)As microdevices. <i>Nature</i> , 2004 , 431, 52-6	50.4	61
23	Magnetically Assembled Multiwalled Carbon Nanotubes on Ferromagnetic Contacts <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19818-19824	3.4	17
22	Giant planar Hall effect in epitaxial (Ga,Mn)As devices. <i>Physical Review Letters</i> , 2003 , 90, 107201	7.4	347
21	Spin-polarized Zener tunneling in (Ga,Mn)As. <i>Physical Review B</i> , 2002 , 65,	3.3	117
20	Ferromagnetic imprinting of nuclear spins in semiconductors. <i>Science</i> , 2001 , 294, 131-4	33.3	101
19	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
18	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
17	(Ga,Mn)As as a digital ferromagnetic heterostructure. <i>Applied Physics Letters</i> , 2000 , 77, 2379-2381	3.4	162
16	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
15	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
14	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
13	Magnetic phases of thin Fe films grown on stepped Cr(001). <i>Physical Review B</i> , 1999 , 59, 11892-11896	3.3	15

12	Quantum-well states in copper thin films. <i>Nature</i> , 1999 , 398, 132-134	50.4	108
11	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
10	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
9	90° Magnetization Switching in Thin Fe Films Grown on Stepped Cr(001). <i>Physical Review Letters</i> , 1998 , 81, 2144-2147	7.4	50
8	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
7	Observation of the Quantum Well Interference in Magnetic Nanostructures by Photoemission. <i>Physical Review Letters</i> , 1998 , 80, 1754-1757	7.4	43
6	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
5	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
4	Magnetic coupling in Co/face-centered-cubic Fe/Co sandwiches. <i>Journal of Applied Physics</i> , 1996 , 79, 4532	2.5	9
3	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
2	Symmetry-Induced Magnetic Anisotropy in Fe Films Grown on Stepped Ag(001). <i>Physical Review Letters</i> , 1996 , 77, 2570-2573	7.4	195
1	fcc Fe films grown on a ferromagnetic fcc Co(100) substrate. <i>Physical Review B</i> , 1996 , 54, 4155-4158	3.3	45