

# Brian Kiraly

## List of Publications by Year in Descending Order

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**Version:** 2024-04-17

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

37  
papers

4,456  
citations

23  
h-index

39  
g-index

39  
ext. papers

5,194  
ext. citations

10.6  
avg, IF

5.4  
L-index

#	Paper	IF	Citations
37	Gating Orbital Memory with an Atomic Donor.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 106801	7.4	0
36	An atomic Boltzmann machine capable of self-adaption. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 414-420	28.7	7
35	Borophene Synthesis on Au(111). <i>ACS Nano</i> , <b>2019</b> , 13, 3816-3822	16.7	134
34	Amino Acid Immobilization of Copper Surface Diffusion on Cu(111). <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900021	4.6	5
33	Immobilized Cu Adatoms: Amino Acid Immobilization of Copper Surface Diffusion on Cu(111) (Adv. Mater. Interfaces 7/2019). <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1970043	4.6	
32	Edge states in the honeycomb reconstruction of two-dimensional silicon nanosheets. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 023102	3.4	2
31	Anisotropic Two-Dimensional Screening at the Surface of Black Phosphorus. <i>Physical Review Letters</i> , <b>2019</b> , 123, 216403	7.4	14
30	Epitaxial graphene-encapsulated surface reconstruction of Ge(110). <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	13
29	Driving chemical interactions at graphene-germanium van der Waals interfaces via thermal annealing. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 213103	3.4	5
28	An orbitally derived single-atom magnetic memory. <i>Nature Communications</i> , <b>2018</b> , 9, 3904	17.4	21
27	Synthesis and chemistry of elemental 2D materials. <i>Nature Reviews Chemistry</i> , <b>2017</b> , 1,	34.6	475
26	Probing Single Vacancies in Black Phosphorus at the Atomic Level. <i>Nano Letters</i> , <b>2017</b> , 17, 3607-3612	11.5	84
25	Sub-5 nm, globally aligned graphene nanoribbons on Ge(001). <i>Applied Physics Letters</i> , <b>2016</b> , 108, 213101	3.4	27
24	Substrate-Induced Nanoscale Undulations of Borophene on Silver. <i>Nano Letters</i> , <b>2016</b> , 16, 6622-6627	11.5	136
23	Electronic and Mechanical Properties of Graphene-Germanium Interfaces Grown by Chemical Vapor Deposition. <i>Nano Letters</i> , <b>2015</b> , 15, 7414-20	11.5	83
22	Direct oriented growth of armchair graphene nanoribbons on germanium. <i>Nature Communications</i> , <b>2015</b> , 6, 8006	17.4	134
21	GrapheneSilicon Heterostructures at the Two-Dimensional Limit. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6085-6090	9.9	14

20	Synthesis of borophenes: Anisotropic, two-dimensional boron polymorphs. <i>Science</i> , <b>2015</b> , 350, 1513-6	33.3	1479
19	Silicon growth at the two-dimensional limit on Ag(111). <i>ACS Nano</i> , <b>2014</b> , 8, 7538-47	16.7	93
18	Solid-source growth and atomic-scale characterization of graphene on Ag(111). <i>Nature Communications</i> , <b>2013</b> , 4,	17.4	95
17	Multifunctional porous silicon nanopillar arrays: antireflection, superhydrophobicity, photoluminescence, and surface-enhanced Raman scattering. <i>Nanotechnology</i> , <b>2013</b> , 24, 245704	3.4	65
16	Large-Scale Fabrication of Three-Dimensional Surface Patterns Using Template-Defined Electrochemical Deposition. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 720-730	15.6	65
15	Fabrication and characterization of beaded SiC quantum rings with anomalous red spectral shift. <i>Advanced Materials</i> , <b>2012</b> , 24, 5598-603	24	59
14	Surface-Enhanced Raman Scattering Study on Graphene-Coated Metallic Nanostructure Substrates. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7249-7254	3.8	85
13	Microfluidic synthesis of multifunctional Janus particles for biomedical applications. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2097-102	7.2	152
12	Molecular plasmonics for biology and nanomedicine. <i>Nanomedicine</i> , <b>2012</b> , 7, 751-70	5.6	96
11	On-chip manipulation of single microparticles, cells, and organisms using surface acoustic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 11105-9	11.5	597
10	Mechanically Tuning the Localized Surface Plasmon Resonances of Gold Nanostructure Arrays. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2012</b> , 3,		3
9	Polarization-independent dual-band infrared perfect absorber based on a metal-dielectric-metal elliptical nanodisk array. <i>Optics Express</i> , <b>2011</b> , 19, 15221-8	3.3	234
8	Incident-angle-modulated molecular plasmonic switches: a case of weak exciton-plasmon coupling. <i>Nano Letters</i> , <b>2011</b> , 11, 2061-5	11.5	96
7	Metallic membranes with subwavelength complementary patterns: distinct substrates for surface-enhanced Raman scattering. <i>ACS Nano</i> , <b>2011</b> , 5, 5472-7	16.7	13
6	Nanoscale super-resolution imaging via a metal-dielectric metamaterial lens system. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 415101	3	12
5	Frequency-addressed tunable transmission in optically thin metallic nanohole arrays with dual-frequency liquid crystals. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 084340	2.5	24
4	Ordered Au Nanodisk and Nanohole Arrays: Fabrication and Applications. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2010</b> , 1,		7
3	Beam bending via plasmonic lenses. <i>Optics Express</i> , <b>2010</b> , 18, 23458-65	3.3	51

- 2 Beam aperture modifier and beam deflector using gradient-index photonic crystals. *Journal of Applied Physics*, **2010**, 108, 103505 2.5 17
- 1 Tunable two-dimensional liquid gradient refractive index (L-GRIN) lens for variable light focusing. *Lab on A Chip*, **2010**, 10, 2387-93 7.2 30