

Brian Kiraly

List of Publications by Citations

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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 | Synthesis of borophenes: Anisotropic, two-dimensional boron polymorphs. <i>Science</i> , 2015 , 350, 1513-6 | 33.3 | 1479 |
| 36 | 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> , 2012 , 109, 11105-9 | 11.5 | 597 |
| 35 | Synthesis and chemistry of elemental 2D materials. <i>Nature Reviews Chemistry</i> , 2017 , 1, | 34.6 | 475 |
| 34 | Polarization-independent dual-band infrared perfect absorber based on a metal-dielectric-metal elliptical nanodisk array. <i>Optics Express</i> , 2011 , 19, 15221-8 | 3.3 | 234 |
| 33 | Microfluidic synthesis of multifunctional Janus particles for biomedical applications. <i>Lab on A Chip</i> , 2012 , 12, 2097-102 | 7.2 | 152 |
| 32 | Substrate-Induced Nanoscale Undulations of Borophene on Silver. <i>Nano Letters</i> , 2016 , 16, 6622-6627 | 11.5 | 136 |
| 31 | Borophene Synthesis on Au(111). <i>ACS Nano</i> , 2019 , 13, 3816-3822 | 16.7 | 134 |
| 30 | Direct oriented growth of armchair graphene nanoribbons on germanium. <i>Nature Communications</i> , 2015 , 6, 8006 | 17.4 | 134 |
| 29 | Molecular plasmonics for biology and nanomedicine. <i>Nanomedicine</i> , 2012 , 7, 751-70 | 5.6 | 96 |
| 28 | Incident-angle-modulated molecular plasmonic switches: a case of weak exciton-plasmon coupling. <i>Nano Letters</i> , 2011 , 11, 2061-5 | 11.5 | 96 |
| 27 | Solid-source growth and atomic-scale characterization of graphene on Ag(111). <i>Nature Communications</i> , 2013 , 4, | 17.4 | 95 |
| 26 | Silicon growth at the two-dimensional limit on Ag(111). <i>ACS Nano</i> , 2014 , 8, 7538-47 | 16.7 | 93 |
| 25 | Surface-Enhanced Raman Scattering Study on Graphene-Coated Metallic Nanostructure Substrates. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7249-7254 | 3.8 | 85 |
| 24 | Probing Single Vacancies in Black Phosphorus at the Atomic Level. <i>Nano Letters</i> , 2017 , 17, 3607-3612 | 11.5 | 84 |
| 23 | Electronic and Mechanical Properties of Graphene-Germanium Interfaces Grown by Chemical Vapor Deposition. <i>Nano Letters</i> , 2015 , 15, 7414-20 | 11.5 | 83 |
| 22 | Multifunctional porous silicon nanopillar arrays: antireflection, superhydrophobicity, photoluminescence, and surface-enhanced Raman scattering. <i>Nanotechnology</i> , 2013 , 24, 245704 | 3.4 | 65 |
| 21 | Large-Scale Fabrication of Three-Dimensional Surface Patterns Using Template-Defined Electrochemical Deposition. <i>Advanced Functional Materials</i> , 2013 , 23, 720-730 | 15.6 | 65 |

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|----|--|------|----|
| 20 | Fabrication and characterization of beaded SiC quantum rings with anomalous red spectral shift. <i>Advanced Materials</i> , 2012 , 24, 5598-603 | 24 | 59 |
| 19 | Beam bending via plasmonic lenses. <i>Optics Express</i> , 2010 , 18, 23458-65 | 3.3 | 51 |
| 18 | Tunable two-dimensional liquid gradient refractive index (L-GRIN) lens for variable light focusing. <i>Lab on A Chip</i> , 2010 , 10, 2387-93 | 7.2 | 30 |
| 17 | Sub-5 nm, globally aligned graphene nanoribbons on Ge(001). <i>Applied Physics Letters</i> , 2016 , 108, 213101 | 3.4 | 27 |
| 16 | Frequency-addressed tunable transmission in optically thin metallic nanohole arrays with dual-frequency liquid crystals. <i>Journal of Applied Physics</i> , 2011 , 109, 084340 | 2.5 | 24 |
| 15 | An orbitally derived single-atom magnetic memory. <i>Nature Communications</i> , 2018 , 9, 3904 | 17.4 | 21 |
| 14 | Beam aperture modifier and beam deflector using gradient-index photonic crystals. <i>Journal of Applied Physics</i> , 2010 , 108, 103505 | 2.5 | 17 |
| 13 | GrapheneSilicon Heterostructures at the Two-Dimensional Limit. <i>Chemistry of Materials</i> , 2015 , 27, 6085-6090 | 6.9 | 14 |
| 12 | Anisotropic Two-Dimensional Screening at the Surface of Black Phosphorus. <i>Physical Review Letters</i> , 2019 , 123, 216403 | 7.4 | 14 |
| 11 | Metallic membranes with subwavelength complementary patterns: distinct substrates for surface-enhanced Raman scattering. <i>ACS Nano</i> , 2011 , 5, 5472-7 | 16.7 | 13 |
| 10 | Epitaxial graphene-encapsulated surface reconstruction of Ge(110). <i>Physical Review Materials</i> , 2018 , 2, 024001 | 3.2 | 13 |
| 9 | Nanoscale super-resolution imaging via a metaldielectric metamaterial lens system. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 415101 | 3 | 12 |
| 8 | Ordered Au Nanodisk and Nanohole Arrays: Fabrication and Applications. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2010 , 1, 010101 | | 7 |
| 7 | An atomic Boltzmann machine capable of self-adaption. <i>Nature Nanotechnology</i> , 2021 , 16, 414-420 | 28.7 | 7 |
| 6 | Amino Acid Immobilization of Copper Surface Diffusion on Cu(111). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900021 | 4.6 | 5 |
| 5 | Driving chemical interactions at graphene-germanium van der Waals interfaces via thermal annealing. <i>Applied Physics Letters</i> , 2018 , 113, 213103 | 3.4 | 5 |
| 4 | Mechanically Tuning the Localized Surface Plasmon Resonances of Gold Nanostructure Arrays. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2012 , 3, 030101 | | 3 |
| 3 | Edge states in the honeycomb reconstruction of two-dimensional silicon nanosheets. <i>Applied Physics Letters</i> , 2019 , 115, 023102 | 3.4 | 2 |

- 2 Gating Orbital Memory with an Atomic Donor.. *Physical Review Letters*, **2022**, 128, 106801 7.4 ○
- 1 Immobilized Cu Adatoms: Amino Acid Immobilization of Copper Surface Diffusion on Cu(111) (Adv. Mater. Interfaces 7/2019). *Advanced Materials Interfaces*, **2019**, 6, 1970043 4.6