# Kristie J Koski

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4909173/publications.pdf

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| 37 | 2,004 | 361413 | 395702 |
|---|---|---|---|
| papers | citations | 20 h-index | 33 g-index |

| 39 | 39 | 39 | 3692 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The New Skinny in Two-Dimensional Nanomaterials. ACS Nano, 2013, 7, 3739-3743. | 14.6 | 336 |
| 2 | Biological and environmental interactions of emerging two-dimensional nanomaterials. Chemical Society Reviews, 2016, 45, 1750-1780. | 38.1 | 216 |
| 3 | Molybdenum Trioxide (Î±-MoO<sub>3</sub>) Nanoribbons for Ultrasensitive Ammonia (NH<sub>3</sub>) Gas Detection: Integrated Experimental and Density Functional Theory Simulation Studies. ACS Applied Materials & Interfaces, 2019, 11, 10697-10706. | 8.0 | 174 |
| 4 | Chemical Intercalation of Zerovalent Metals into 2D Layered Bi<sub>2</sub>Se<sub>3</sub> Nanoribbons. Journal of the American Chemical Society, 2012, 134, 13773-13779. | 13.7 | 160 |
| 5 | High-Density Chemical Intercalation of Zero-Valent Copper into Bi<sub>2</sub>Se<sub>3</sub> Nanoribbons. Journal of the American Chemical Society, 2012, 134, 7584-7587. | 13.7 | 152 |
| 6 | Non-invasive determination of the complete elastic moduli of spider silks. Nature Materials, 2013, 12, 262-267. | 27.5 | 132 |
| 7 | Reversible Chemochromic MoO<sub>3</sub> Nanoribbons through Zerovalent Metal Intercalation. ACS Nano, 2015, 9, 3226-3233. | 14.6 | 103 |
| 8 | Optical transmission enhacement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. Nature Communications, 2014, 5, 5670. | 12.8 | 99 |
| 9 | Topological insulator nanostructures. Physica Status Solidi - Rapid Research Letters, 2013, 7, 15-25. | 2.4 | 68 |
| 10 | Two-Dimensional Chalcogenide Nanoplates as Tunable Metamaterials via Chemical Intercalation. Nano Letters, 2013, 13, 5913-5918. | 9.1 | 64 |
| 11 | General Strategy for Zero-Valent Intercalation into Two-Dimensional Layered Nanomaterials. Chemistry of Materials, 2014, 26, 2313-2317. | 6.7 | 61 |
| 12 | Dual Element Intercalation into 2D Layered Bi<sub>2</sub>Se<sub>3</sub> Nanoribbons. Journal of the American Chemical Society, 2015, 137, 5431-5437. | 13.7 | 56 |
| 13 | A Silicon-Based Two-Dimensional Chalcogenide: Growth of Si<sub>2</sub>Te<sub>3</sub> Nanoribbons and Nanoplates. Nano Letters, 2015, 15, 2285-2290. | 9.1 | 55 |
| 14 | Ultrafast Zero-Bias Photocurrent in GeS Nanosheets: Promise for Photovoltaics. ACS Energy Letters, 2017, 2, 1429-1434. | 17.4 | 53 |
| 15 | Chemical intercalation of heavy metal, semimetal, and semiconductor atoms into 2D layered chalcogenides. 2D Materials, 2018, 5, 045005. | 4.4 | 32 |
| 16 | Chemically Tuning Quantized Acoustic Phonons in 2D Layered MoO<sub>3</sub> Nanoribbons. Nano Letters, 2019, 19, 4406-4412. | 9.1 | 31 |
| 17 | Research Update: Recent progress on 2D materials beyond graphene: From ripples, defects, intercalation, and valley dynamics to straintronics and power dissipation. APL Materials, 2018, 6, . | 5.1 | 30 |
| 18 | Chemically Tunable Full Spectrum Optical Properties of 2D Silicon Telluride Nanoplates. ACS Nano, 2018, 12, 6163-6169. | 14.6 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Enhancing Lightâ€“Matter Interactions in MoS<sub>2</sub> by Copper Intercalation. Advanced Materials, 2021, 33, e2008779. | 21.0 | 25 |
| 20 | Deintercalation of Zero-Valent Metals from Two-Dimensional Layered Chalcogenides. Chemistry of Materials, 2017, 29, 1650-1655. | 6.7 | 22 |
| 21 | Biodissolution and cellular response to MoO<sub>3</sub>nanoribbons and a new framework for early hazard screening for 2D materials. Environmental Science: Nano, 2018, 5, 2545-2559. | 4.3 | 17 |
| 22 | The elastic constants of rubrene determined by Brillouin scattering and density functional theory. Applied Physics Letters, 2017, 110, . | 3.3 | 15 |
| 23 | Pressure-dependent phase transition of 2D layered silicon telluride (Si2Te3) and manganese intercalated silicon telluride. Nano Research, 2019, 12, 2373-2377. | 10.4 | 15 |
| 24 | Polytypic phase transitions in metal intercalated Bi2Se3. Journal of Physics Condensed Matter, 2016, 28, 494002. | 1.8 | 10 |
| 25 | Temperature-driven disorderâ€“order transitions in 2D copper-intercalated MoO <sub>3</sub> revealed using dynamic transmission electron microscopy. 2D Materials, 2014, 1, 035001. | 4.4 | 8 |
| 26 | Mesoscale elastic properties of marine sponge spicules. Journal of Structural Biology, 2016, 193, 67-74. | 2.8 | 7 |
| 27 | Quantitative Hole Mobility Simulation and Validation in Substituted Acenes. Journal of Physical Chemistry Letters, 2022, 13, 5530-5537. | 4.6 | 7 |
| 28 | Brillouin scattering of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>5</mml:mn></mml:msub></mml:math> and Sn-intercalated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi | 3.2 | 6 |
| 29 | Elasticity of bamboo fiber variants from Brillouin spectroscopy. Materialia, 2019, 5, 100240. | 2.7 | 5 |
| 30 | Mn-intercalated MoSe2 under pressure: Electronic structure and vibrational characterization of a dilute magnetic semiconductor. Journal of Chemical Physics, 2020, 153, 124701. | 3.0 | 5 |
| 31 | Shear-induced rigidity in spider silk glands. Applied Physics Letters, 2012, 101, 103701. | 3.3 | 3 |
| 32 | Acoustic phonons and elastic stiffnesses from Brillouin scattering of CdPS3. Journal of Applied Physics, 2022, 131, . | 2.5 | 3 |
| 33 | Terahertz emission from 2D nanomaterials. , 2018, , . | | 2 |
| 34 | Terahertz Spectroscopy of 2D Materials. , 2018, , . | | 1 |
| 35 | Ultrasensitive ammonia (NH3) gas sensor: DFT Simulation-Directed Selection of High-Performance Metal-Doped Molybdenum Tri-oxide (Î±-MoO3) Nanoribbons for NH3 Detection. , 2019, , . | | 1 |
| 36 | Correlation between Color and Elasticity in Anomia ephippium Shells: Biological Design to Enhance the Mechanical Properties. ACS Applied Bio Materials, 2020, 3, 9012-9018. | 4.6 | 0 |

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|---|---|---|---|
| 37 | Ultrafast zero-bias photocurrent in GeS nanosheets. , 2018, , . | | 0 |