Kristie J Koski

List of Publications by Year
in descending order

37 papers	2,004 citations	361413 20 h-index	395702 33 g-index
39 all docs	39 docs citations	39 times ranked	3692 citing authors

#	Article	IF	Citations
1	Acoustic phonons and elastic stiffnesses from Brillouin scattering of CdPS3. Journal of Applied Physics, 2022, 131, .	2.5	3
2	Quantitative Hole Mobility Simulation and Validation in Substituted Acenes. Journal of Physical Chemistry Letters, 2022, 13, 5530-5537.	4.6	7
3	Enhancing Lightâ€“Matter Interactions in MoS₂ by Copper Intercalation. Advanced Materials, 2021, 33, e2008779.	21.0	25
4	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
5	Correlation between Color and Elasticity in <i>Anomia ephippium</i> Shells: Biological Design to Enhance the Mechanical Properties. ACS Applied Bio Materials, 2020, 3, 9012-9018.	4.6	0
6	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
7	Chemically Tuning Quantized Acoustic Phonons in 2D Layered MoO₃ Nanoribbons. Nano Letters, 2019, 19, 4406-4412.	9.1	31
8	Molybdenum Trioxide (Î±-MoO₃) Nanoribbons for Ultrasensitive Ammonia (NH₃) Gas Detection: Integrated Experimental and Density Functional Theory Simulation Studies. ACS Applied Materials & Interfaces, 2019, 11, 10697-10706.	8.0	174
9	Pressure-dependent phase transition of 2D layered silicon telluride (Si2Te3) and manganese intercalated silicon telluride. Nano Research, 2019, 12, 2373-2377.	10.4	15
10	Elasticity of bamboo fiber variants from Brillouin spectroscopy. Materialia, 2019, 5, 100240.	2.7	5
11	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
12	Terahertz Spectroscopy of 2D Materials. , 2018, , .		1
13	Biodissolution and cellular response to MoO₃nanoribbons and a new framework for early hazard screening for 2D materials. Environmental Science: Nano, 2018, 5, 2545-2559.	4.3	17
14	Chemical intercalation of heavy metal, semimetal, and semiconductor atoms into 2D layered chalcogenides. 2D Materials, 2018, 5, 045005.	4.4	32
15	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
16	Chemically Tunable Full Spectrum Optical Properties of 2D Silicon Telluride Nanoplates. ACS Nano, 2018, 12, 6163-6169.	14.6	28
17	Ultrafast zero-bias photocurrent in GeS nanosheets. , 2018, , .		0
18	Terahertz emission from 2D nanomaterials. , 2018, , .		2

#	Article	IF	Citations
19	Deintercalation of Zero-Valent Metals from Two-Dimensional Layered Chalcogenides. Chemistry of Materials, 2017, 29, 1650-1655.	6.7	22
20	The elastic constants of rubrene determined by Brillouin scattering and density functional theory. Applied Physics Letters, 2017, 110, .	3.3	15
21	Ultrafast Zero-Bias Photocurrent in GeS Nanosheets: Promise for Photovoltaics. ACS Energy Letters, 2017, 2, 1429-1434.	17.4	53
22	Polytypic phase transitions in metal intercalated Bi2Se3. Journal of Physics Condensed Matter, 2016, 28, 494002.	1.8	10
23	Mesoscale elastic properties of marine sponge spicules. Journal of Structural Biology, 2016, 193, 67-74.	2.8	7
24	Biological and environmental interactions of emerging two-dimensional nanomaterials. Chemical Society Reviews, 2016, 45, 1750-1780.	38.1	216
25	Reversible Chemochromic MoO₃ Nanoribbons through Zerovalent Metal Intercalation. ACS Nano, 2015, 9, 3226-3233.	14.6	103
26	Dual Element Intercalation into 2D Layered Bi₂Se₃ Nanoribbons. Journal of the American Chemical Society, 2015, 137, 5431-5437.	13.7	56
27	A Silicon-Based Two-Dimensional Chalcogenide: Growth of Si₂Te₃ Nanoribbons and Nanoplates. Nano Letters, 2015, 15, 2285-2290.	9.1	55
28	Optical transmission enhacement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. Nature Communications, 2014, 5, 5670.	12.8	99
29	Temperature-driven disorderâ€“order transitions in 2D copper-intercalated MoO ₃ revealed using dynamic transmission electron microscopy. 2D Materials, 2014, 1, 035001.	4.4	8
30	General Strategy for Zero-Valent Intercalation into Two-Dimensional Layered Nanomaterials. Chemistry of Materials, 2014, 26, 2313-2317.	6.7	61
31	Two-Dimensional Chalcogenide Nanoplates as Tunable Metamaterials via Chemical Intercalation. Nano Letters, 2013, 13, 5913-5918.	9.1	64
32	Non-invasive determination of the complete elastic moduli of spider silks. Nature Materials, 2013, 12, 262-267.	27.5	132
33	The New Skinny in Two-Dimensional Nanomaterials. ACS Nano, 2013, 7, 3739-3743.	14.6	336
34	Topological insulator nanostructures. Physica Status Solidi - Rapid Research Letters, 2013, 7, 15-25.	2.4	68
35	Chemical Intercalation of Zerovalent Metals into 2D Layered Bi₂Se₃ Nanoribbons. Journal of the American Chemical Society, 2012, 134, 13773-13779.	13.7	160
36	Shear-induced rigidity in spider silk glands. Applied Physics Letters, 2012, 101, 103701.	3.3	3

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37	High-Density Chemical Intercalation of Zero-Valent Copper into Bi₂Se₃ Nanoribbons. Journal of the American Chemical Society, 2012, 134, 7584-7587.	13.7	152