Gunnar BerghÃ¤user

List of Publications by Year
in descending order

23 papers	2,131 citations	516710 16 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	2550 citing authors

#	Article	IF	Citations
1	Dark exciton based strain sensing in tungsten-based transition metal dichalcogenides. Physical Review B, 2019, 99, .	3.2	23
2	Internal structure and ultrafast dynamics of tailored excitons in van der Waals heterostructures. , 2019, , .		0
3	Exciton broadening and band renormalization due to Dexter-like intervalley coupling. 2D Materials, 2018, 5, 025011.	4.4	15
4	Strain Control of Excitonâ€“Phonon Coupling in Atomically Thin Semiconductors. Nano Letters, 2018, 18, 1751-1757.	9.1	177
5	Dielectric Engineering of Electronic Correlations in a van der Waals Heterostructure. Nano Letters, 2018, 18, 1402-1409.	9.1	39
6	Dark and bright exciton formation, thermalization, and photoluminescence in monolayer transition metal dichalcogenides. 2D Materials, 2018, 5, 035017.	4.4	129
7	Inverted valley polarization in optically excited transition metal dichalcogenides. Nature Communications, 2018, 9, 971.	12.8	59
8	Mapping of the dark exciton landscape in transition metal dichalcogenides. Physical Review B, 2018, 98, .	3.2	53
9	The role of momentum-dark excitons in the elementary optical response of bilayer WSe2. Nature Communications, 2018, 9, 2586.	12.8	70
10	Enhancement of Excitonâ€“Phonon Scattering from Monolayer to Bilayer WS₂. Nano Letters, 2018, 18, 6135-6143.	9.1	50
11	Dark excitons in transition metal dichalcogenides. Physical Review Materials, 2018, 2, .	2.4	149
12	Molecule signatures in photoluminescence spectra of transition metal dichalcogenides. Physical Review Materials, 2018, 2, .	2.4	5
13	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Proceedings of SPIE, 2017, , .	0.8	0
14	Proposal for dark exciton based chemical sensors. Nature Communications, 2017, 8, 14776.	12.8	70
15	Phonon Sidebands in Monolayer Transition Metal Dichalcogenides. Physical Review Letters, 2017, 119, 187402.	7.8	136
16	Impact of strain on the optical fingerprint of monolayer transition-metal dichalcogenides. Physical Review B, 2017, 96, .	3.2	50
17	Optical Response From Functionalized Atomically Thin Nanomaterials. Annalen Der Physik, 2017, 529, 1700097.	2.4	2
18	Optical fingerprint of non-covalently functionalized transition metal dichalcogenides. Journal of Physics Condensed Matter, 2017, 29, 384003.	1.8	2

#	Article	IF	Citations
19	Ultrafast Coulomb-Induced Intervalley Coupling in Atomically Thin WS₂. Nano Letters, 2016, 16, 2945-2950.	9.1	139
20	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Nature Communications, 2016, 7, 13279.	12.8	360
21	Intrinsic homogeneous linewidth and broadening mechanisms of excitons in monolayer transition metal dichalcogenides. Nature Communications, 2015, 6, 8315.	12.8	408
22	Moleculeâ€“substrate interaction in functionalized graphene. Carbon, 2014, 69, 536-542.	10.3	9
23	Analytical approach to excitonic properties of MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	186