

Gunnar BerghÄuser

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

2,131
citations

516710

16
h-index

713466

21
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23
all docs

23
docs citations

23
times ranked

2550
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic homogeneous linewidth and broadening mechanisms of excitons in monolayer transition metal dichalcogenides. Nature Communications, 2015, 6, 8315.	12.8	408
2	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Nature Communications, 2016, 7, 13279.	12.8	360
3	Analytical approach to excitonic properties of MoS ₂ . Physical Review B, 2014, 89, .	3.2	186
4	Strain Control of Exciton-Phonon Coupling in Atomically Thin Semiconductors. Nano Letters, 2018, 18, 1751-1757.	9.1	177
5	Dark excitons in transition metal dichalcogenides. Physical Review Materials, 2018, 2, .	2.4	149
6	Ultrafast Coulomb-Induced Intervalley Coupling in Atomically Thin WS ₂ . Nano Letters, 2016, 16, 2945-2950.	9.1	139
7	Phonon Sidebands in Monolayer Transition Metal Dichalcogenides. Physical Review Letters, 2017, 119, 187402.	7.8	136
8	Dark and bright exciton formation, thermalization, and photoluminescence in monolayer transition metal dichalcogenides. 2D Materials, 2018, 5, 035017.	4.4	129
9	Proposal for dark exciton based chemical sensors. Nature Communications, 2017, 8, 14776.	12.8	70
10	The role of momentum-dark excitons in the elementary optical response of bilayer WSe ₂ . Nature Communications, 2018, 9, 2586.	12.8	70
11	Inverted valley polarization in optically excited transition metal dichalcogenides. Nature Communications, 2018, 9, 971.	12.8	59
12	Mapping of the dark exciton landscape in transition metal dichalcogenides. Physical Review B, 2018, 98, .	3.2	53
13	Impact of strain on the optical fingerprint of monolayer transition-metal dichalcogenides. Physical Review B, 2017, 96, .	3.2	50
14	Enhancement of Exciton-Phonon Scattering from Monolayer to Bilayer WS ₂ . Nano Letters, 2018, 18, 6135-6143.	9.1	50
15	Dielectric Engineering of Electronic Correlations in a van der Waals Heterostructure. Nano Letters, 2018, 18, 1402-1409.	9.1	39
16	Dark exciton based strain sensing in tungsten-based transition metal dichalcogenides. Physical Review B, 2019, 99, .	3.2	23
17	Exciton broadening and band renormalization due to Dexter-like intervalley coupling. 2D Materials, 2018, 5, 025011.	4.4	15
18	Molecule-substrate interaction in functionalized graphene. Carbon, 2014, 69, 536-542.	10.3	9

#	ARTICLE	IF	CITATIONS
19	Molecule signatures in photoluminescence spectra of transition metal dichalcogenides. Physical Review Materials, 2018, 2, .	2.4	5
20	Optical Response From Functionalized Atomically Thin Nanomaterials. Annalen Der Physik, 2017, 529, 1700097.	2.4	2
21	Optical fingerprint of non-covalently functionalized transition metal dichalcogenides. Journal of Physics Condensed Matter, 2017, 29, 384003.	1.8	2
22	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Proceedings of SPIE, 2017, , .	0.8	0
23	Internal structure and ultrafast dynamics of tailored excitons in van der Waals heterostructures. , 2019, , .		0