

Samuel Brem

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,787
citations

304743

22
h-index

265206

42
g-index

49
all docs

49
docs citations

49
times ranked

1832
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric disorder in two-dimensional materials. Nature Nanotechnology, 2019, 14, 832-837.	31.5	223
2	Ultrafast transition between exciton phases in van der Waals heterostructures. Nature Materials, 2019, 18, 691-696.	27.5	168
3	Dark excitons in transition metal dichalcogenides. Physical Review Materials, 2018, 2, .	2.4	149
4	Phonon-Assisted Photoluminescence from Indirect Excitons in Monolayers of Transition-Metal Dichalcogenides. Nano Letters, 2020, 20, 2849-2856.	9.1	106
5	Interlayer exciton dynamics in van der Waals heterostructures. Communications Physics, 2019, 2, .	5.3	103
6	Exciton Relaxation Cascade in two-dimensional Transition Metal Dichalcogenides. Scientific Reports, 2018, 8, 8238.	3.3	82
7	Tunable Phases of Moiré Excitons in van der Waals Heterostructures. Nano Letters, 2020, 20, 8534-8540.	9.1	74
8	Exciton diffusion in monolayer semiconductors with suppressed disorder. Physical Review B, 2020, 101, .	3.2	74
9	Exciton Propagation and Halo Formation in Two-Dimensional Materials. Nano Letters, 2019, 19, 7317-7323.	9.1	64
10	Twist-tailoring Coulomb correlations in van der Waals homobilayers. Nature Communications, 2020, 11, 2167.	12.8	63
11	Intrinsic lifetime of higher excitonic states in tungsten diselenide monolayers. Nanoscale, 2019, 11, 12381-12387.	5.6	56
12	Hybridized intervalley moiré excitons and flat bands in twisted WSe ₂ bilayers. Nanoscale, 2020, 12, 11088-11094.	5.6	55
13	Impact of strain on the excitonic linewidth in transition metal dichalcogenides. 2D Materials, 2019, 6, 015015.	4.4	51
14	Momentum-Resolved Observation of Exciton Formation Dynamics in Monolayer WS ₂ . Nano Letters, 2021, 21, 5867-5873.	9.1	45
15	Exciton-exciton interaction in transition metal dichalcogenide monolayers and van der Waals heterostructures. Physical Review B, 2021, 103, .	3.2	42
16	Nonclassical Exciton Diffusion in Monolayer WS_2 . Physical Review Letters, 2021, 127, 076801.	7.8	40
17	Dielectric Engineering of Electronic Correlations in a van der Waals Heterostructure. Nano Letters, 2018, 18, 1402-1409.	9.1	39
18	Negative effective excitonic diffusion in monolayer transition metal dichalcogenides. Nanoscale, 2020, 12, 356-363.	5.6	37

#	ARTICLE	IF	CITATIONS
37	Molecule signatures in photoluminescence spectra of transition metal dichalcogenides. Physical Review Materials, 2018, 2, .	2.4	5
38	Electrically pumped graphene-based Landau-level laser. Physical Review Materials, 2018, 2, .	2.4	5
39	Criteria for deterministic single-photon emission in two-dimensional atomic crystals. Physical Review Materials, 2020, 4, .	2.4	5
40	Valley-exchange coupling probed by angle-resolved photoluminescence. Nanoscale Horizons, 2021, 7, 77-84.	8.0	5
41	Anisotropic exciton diffusion in atomically-thin semiconductors. 2D Materials, 2022, 9, 025008.	4.4	4
42	Microscopic Modeling of Pump-Probe Spectroscopy and Population Inversion in Transition Metal Dichalcogenides. Physica Status Solidi (B): Basic Research, 2020, 257, 2000223.	1.5	2
43	Disorder-induced broadening of excitonic resonances in transition metal dichalcogenides. Physical Review Materials, 2019, 3, .	2.4	2
44	Tailoring Coulomb correlations in twisted WSe2 bilayers. , 2021, , .		0
45	Twist-Tailoring Hybrid Excitons In Van Der Waals Homobilayers. , 2021, , .		0
46	Ultrafast Transition from Intra- to Interlayer Exciton Phases in a Van Der Waals Heterostructure. , 2019, , .		0
47	Internal structure and ultrafast dynamics of tailored excitons in van der Waals heterostructures. , 2019, , .		0
48	Excitons in twisted van der Waals bilayers: Internal structure and ultrafast dynamics. , 2020, , .		0