

Malte Selig

List of Publications by Year in descending order

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38
papers

2,214
citations

304743

22
h-index

377865

34
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38
all docs

38
docs citations

38
times ranked

2146
citing authors

#	ARTICLE	IF	CITATIONS
1	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Nature Communications, 2016, 7, 13279.	12.8	360
2	Strain Control of Exciton-Phonon Coupling in Atomically Thin Semiconductors. Nano Letters, 2018, 18, 1751-1757.	9.1	177
3	Dark excitons in transition metal dichalcogenides. Physical Review Materials, 2018, 2, .	2.4	149
4	Ultrafast Coulomb-Induced Intervalley Coupling in Atomically Thin WS ₂ . Nano Letters, 2016, 16, 2945-2950.	9.1	139
5	Phonon Sidebands in Monolayer Transition Metal Dichalcogenides. Physical Review Letters, 2017, 119, 187402.	7.8	136
6	Dark and bright exciton formation, thermalization, and photoluminescence in monolayer transition metal dichalcogenides. 2D Materials, 2018, 5, 035017.	4.4	129
7	Phonon-Assisted Photoluminescence from Indirect Excitons in Monolayers of Transition-Metal Dichalcogenides. Nano Letters, 2020, 20, 2849-2856.	9.1	106
8	Interlayer exciton dynamics in van der Waals heterostructures. Communications Physics, 2019, 2, .	5.3	103
9	Exciton Relaxation Cascade in two-dimensional Transition Metal Dichalcogenides. Scientific Reports, 2018, 8, 8238.	3.3	82
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	Theory of Exciton-Exciton Interactions in Monolayer Transition Metal Dichalcogenides. Physica Status Solidi (B): Basic Research, 2018, 255, 1800185.	1.5	61
12	The ultrafast onset of exciton formation in 2D semiconductors. Nature Communications, 2020, 11, 5277.	12.8	57
13	Ultrafast dynamics in monolayer transition metal dichalcogenides: Interplay of dark excitons, phonons, and intervalley exchange. Physical Review Research, 2019, 1, .	3.6	57
14	Intrinsic lifetime of higher excitonic states in tungsten diselenide monolayers. Nanoscale, 2019, 11, 12381-12387.	5.6	56
15	Exciton-Scattering-Induced Dephasing in Two-Dimensional Semiconductors. Physical Review Letters, 2020, 124, 257402.	7.8	55
16	Direct measurement of key exciton properties: Energy, dynamics, and spatial distribution of the wave function. Natural Sciences, 2021, 1, e10010.	2.1	52
17	Impact of strain on the excitonic linewidth in transition metal dichalcogenides. 2D Materials, 2019, 6, 015015.	4.4	51
18	Enhancement of Exciton-Phonon Scattering from Monolayer to Bilayer WS ₂ . Nano Letters, 2018, 18, 6135-6143.	9.1	50

#	ARTICLE	IF	CITATIONS
19	Theory of exciton dynamics in time-resolved ARPES: Intra- and intervalley scattering in two-dimensional semiconductors. <i>Physical Review B</i> , 2019, 100, .	3.2	49
20	Dielectric Engineering of Electronic Correlations in a van der Waals Heterostructure. <i>Nano Letters</i> , 2018, 18, 1402-1409.	9.1	39
21	Theory of coherent pump-probe spectroscopy in monolayer transition metal dichalcogenides. <i>2D Materials</i> , 2020, 7, 015021.	4.4	30
22	Excitons in Bilayer MoS_2 Displaying a Colossal Electric Field Splitting and Tunable Magnetic Response. <i>Physical Review Letters</i> , 2021, 126, 037401.	7.8	30
23	Suppression of intervalley exchange coupling in the presence of momentum-dark states in transition metal dichalcogenides. <i>Physical Review Research</i> , 2020, 2, .	3.6	23
24	Optical dipole orientation of interlayer excitons in MoSe_2 heterostacks. <i>Physical Review B</i> , 2022, 105, .	3.2	22
25	Theory of optically induced Förster coupling in van der Waals coupled heterostructures. <i>Physical Review B</i> , 2019, 99, .	3.2	20
26	Temporal Evolution of Low-Temperature Phonon Sidebands in Transition Metal Dichalcogenides. <i>ACS Photonics</i> , 2020, 7, 2756-2764.	6.6	20
27	Exciton broadening and band renormalization due to Dexter-like intervalley coupling. <i>2D Materials</i> , 2018, 5, 025011.	4.4	15
28	Phonon-Assisted Intervalley Scattering Determines Ultrafast Exciton Dynamics in MoSe_2 Bilayers. <i>Physical Review Letters</i> , 2021, 127, 157403.	7.8	15
29	Theory of second-order excitonic nonlinearities in transition metal dichalcogenides. <i>Physical Review B</i> , 2019, 100, .	3.2	12
30	Strong coupling regime and hybrid quasinormal modes from a single plasmonic resonator coupled to a transition metal dichalcogenide monolayer. <i>Physical Review B</i> , 2021, 104, .	3.2	12
31	Interlayer exciton valley polarization dynamics in large magnetic fields. <i>Physical Review B</i> , 2022, 105, .	3.2	11
32	Terahertz-Induced Energy Transfer from Hot Carriers to Trions in a MoSe_2 Monolayer. <i>ACS Photonics</i> , 2021, 8, .	6.6	9
33	Theory of the Coherent Response of Magneto-Excitons and Magneto-Biexcitons in Monolayer Transition Metal Dichalcogenides. <i>Physical Review B</i> , 2020, 102, .	3.2	8
34	Molecule signatures in photoluminescence spectra of transition metal dichalcogenides. <i>Physical Review Materials</i> , 2018, 2, .	2.4	5
35	Terahertz control of photoluminescence emission in few-layer InSe . <i>Applied Physics Letters</i> , 2022, 120, .	3.3	4
36	Internal structure and ultrafast dynamics of tailored excitons in van der Waals heterostructures. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Exciton dynamics in atomically thin semiconductors: optical lineshape, intervalley coupling, and luminescence dynamics. , 2019, , .		0
38	Phonon-Assisted Exciton Polarization to Population Transfer in a 2D Semiconductor. , 2020, , .		0