

Thorsten Deilmann

List of Publications by Year in descending order

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43
papers

2,544
citations

304743

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docs citations

45
times ranked

3306
citing authors

#	ARTICLE	IF	CITATIONS
1	Uniaxial strain tuning of Raman spectra of a ReS_2 monolayer. <i>Physical Review B</i> , 2022, 105, .		
2	Electronic and optical properties of a hexagonal boron nitride monolayer in its pristine form and with point defects from first principles. <i>Physical Review B</i> , 2022, 106, .	3.2	12
3	Towards fully automated GW band structure calculations: What we can learn from 60.000 self-energy evaluations. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	20
4	Subsystem-Based GW/Bethe-Salpeter Equation. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2186-2199.	5.3	12
5	Valley-Dependent Interlayer Excitons in Magnetic $\text{WSe}_2/\text{CrI}_3$. <i>Nano Letters</i> , 2021, 21, 5173-5178.	9.1	21
6	Electrical tuning of optically active interlayer excitons in bilayer MoS_2 . <i>Nature Nanotechnology</i> , 2021, 16, 888-893.	31.5	60
7	Recent progress of the Computational 2D Materials Database (C2DB). <i>2D Materials</i> , 2021, 8, 044002.	4.4	218
8	Covalent photofunctionalization and electronic repair of 2H-MoS_2 via nitrogen incorporation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18517-18524.	2.8	3
9	Strain tuning of the Stokes shift in atomically thin semiconductors. <i>Nanoscale</i> , 2020, 12, 20786-20796.	5.6	17
10	Ab Initio Studies of Exciton Factors: Monolayer Transition Metal Dichalcogenides in Magnetic Fields. <i>Physical Review Letters</i> , 2020, 124, 226402.	7.8	51
11	Valley selectivity induced by magnetic adsorbates: Triplet oxygen on monolayer MoS_2 . <i>Physical Review B</i> , 2020, 101, .		
12	Inelastic electron tunneling spectroscopy for probing strongly correlated many-body systems by scanning tunneling microscopy. <i>Physical Review B</i> , 2020, 101, .	3.2	7
13	Light-matter interaction in van der Waals hetero-structures. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 333002.	1.8	22
14	Dark trions govern the temperature-dependent optical absorption and emission of doped atomically thin semiconductors. <i>Physical Review B</i> , 2020, 101, .	3.2	39
15	Interlayer and excited-state exciton transitions in bulk HgTe . <i>Physical Review B</i> , 2020, 102, .		
16	Classifying the Electronic and Optical Properties of Janus Monolayers. <i>ACS Nano</i> , 2019, 13, 13354-13364.	14.6	93
17	Excited-State Trions in Monolayer WS_2 . <i>Physical Review Letters</i> , 2019, 123, 167401.	7.8	51
18	Reply to comment on "The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals". <i>2D Materials</i> , 2019, 6, 048002.	4.4	12

#	ARTICLE	IF	CITATIONS
19	Important role of screening the electron-hole exchange interaction for the optical properties of molecules near metal surfaces. <i>Physical Review B</i> , 2019, 99, .	3.2	8
20	Finite-momentum exciton landscape in mono- and bilayer transition metal dichalcogenides. <i>2D Materials</i> , 2019, 6, 035003.	4.4	84
21	Nature of the excited states of layered systems and molecular excimers: Exciplex states and their dependence on structure. <i>Physical Review B</i> , 2019, 99, .	3.2	9
22	Discovering two-dimensional topological insulators from high-throughput computations. <i>Physical Review Materials</i> , 2019, 3, .	2.4	60
23	Interlayer Excitons with Large Optical Amplitudes in Layered van der Waals Materials. <i>Nano Letters</i> , 2018, 18, 2984-2989.	9.1	71
24	Anomalous behavior of the excited state of the A exciton in bulk WS_2 . <i>Physical Review B</i> , 2018, 97, .	3.2	16
25	Interlayer Trions in the MoS_2/WS_2 van der Waals Heterostructure. <i>Nano Letters</i> , 2018, 18, 1460-1465.	9.1	56
26	Trions in bulk LiF and at the LiF(001) surface. <i>Physical Review B</i> , 2018, 98, .	3.2	4
27	Electronic excitations in transition metal dichalcogenide monolayers from an LDA+ GdW approach. <i>Physical Review B</i> , 2018, 98, .	3.2	39
28	Valley-contrasting optics of interlayer excitons in Mo- and W-based bulk transition metal dichalcogenides. <i>Nanoscale</i> , 2018, 10, 15571-15577.	5.6	31
29	The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals. <i>2D Materials</i> , 2018, 5, 042002.	4.4	711
30	Unraveling the not-so-large trion binding energy in monolayer black phosphorus. <i>2D Materials</i> , 2018, 5, 041007.	4.4	14
31	Highly Anisotropic in-Plane Excitons in Atomically Thin and Bulklike $1T\text{-}ReSe_2$. <i>Nano Letters</i> , 2017, 17, 3202-3207.	9.1	130
32	Huge Trionic Effects in Graphene Nanoribbons. <i>Nano Letters</i> , 2017, 17, 6833-6837.	9.1	22
33	Correction to Highly Anisotropic in-Plane Excitons in Atomically Thin and Bulklike $1T\text{-}ReSe_2$. <i>Nano Letters</i> , 2017, 17, 7169-7169.	9.1	1
34	Interlayer excitons in a bulk van der Waals semiconductor. <i>Nature Communications</i> , 2017, 8, 639.	12.8	76
35	Diversity of trion states and substrate effects in the optical properties of an MoS_2 monolayer. <i>Nature Communications</i> , 2017, 8, 2117.	12.8	144
36	Dark excitations in monolayer transition metal dichalcogenides. <i>Physical Review B</i> , 2017, 96, .	3.2	60

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37	A chemically driven quantum phase transition in a two-molecule Kondo system. Nature Physics, 2016, 12, 867-873.	16.7	49
38	Three-particle correlation from a Many-Body Perspective: Trions in a Carbon Nanotube. Physical Review Letters, 2016, 116, 196804.	7.8	43
39	Scanning quantum dot microscopy: A quantitative method to measure local electrostatic potential near surfaces. Japanese Journal of Applied Physics, 2016, 55, 08NA04.	1.5	8
40	Reversible uniaxial strain tuning in atomically thin WSe ₂ . 2D Materials, 2016, 3, 021011.	4.4	125
41	Transferring spin into an extended π orbital of a large molecule. Physical Review B, 2015, 91, .	3.2	24
42	Scanning Quantum Dot Microscopy. Physical Review Letters, 2015, 115, 026101.	7.8	80
43	Adsorption and STM imaging of tetracyanoethylene on Ag(001): An <i>ab initio</i> study. Physical Review B, 2014, 89, .	3.2	12