

Robert Schmidt

List of Publications by Citations

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41
papers

3,203
citations

24
h-index

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g-index

50
ext. papers

3,878
ext. citations

8.5
avg, IF

4.95
L-index

#	Paper	IF	Citations
41	Photoluminescence emission and Raman response of monolayer MoS ₂ /MoSe ₂ and WSe ₂ . <i>Optics Express</i> , 2013 , 21, 4908-16	3.3	1005
40	Single-photon emission from localized excitons in an atomically thin semiconductor. <i>Optica</i> , 2015 , 2, 347	8.6	290
39	Trion fine structure and coupled spin-valley dynamics in monolayer tungsten disulfide. <i>Nature Communications</i> , 2016 , 7, 12715	17.4	185
38	Strain Control of Exciton-Phonon Coupling in Atomically Thin Semiconductors. <i>Nano Letters</i> , 2018 , 18, 1751-1757	11.5	121
37	Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe ₂ . <i>Advanced Materials</i> , 2016 , 28, 7101-5	24	121
36	Biaxial strain tuning of the optical properties of single-layer transition metal dichalcogenides. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	118
35	Ultrafast Coulomb-Induced Intervalley Coupling in Atomically Thin WS ₂ . <i>Nano Letters</i> , 2016 , 16, 2945-50	11.5	110
34	Thickness-Dependent Differential Reflectance Spectra of Monolayer and Few-Layer MoS ₂ /MoSe ₂ and WSe ₂ . <i>Nanomaterials</i> , 2018 , 8,	5.4	106
33	Phonon Sidebands in Monolayer Transition Metal Dichalcogenides. <i>Physical Review Letters</i> , 2017 , 119, 187402	7.4	100
32	Nanoantenna-Enhanced Light-Matter Interaction in Atomically Thin WS ₂ . <i>ACS Photonics</i> , 2015 , 2, 1260-1265	6.5	92
31	Reversible uniaxial strain tuning in atomically thin WSe ₂ . <i>2D Materials</i> , 2016 , 3, 021011	5.9	89
30	Highly Anisotropic in-Plane Excitons in Atomically Thin and Bulklike 1T _W ReSe ₂ . <i>Nano Letters</i> , 2017 , 17, 3202-3207	11.5	86
29	Micro-reflectance and transmittance spectroscopy: a versatile and powerful tool to characterize 2D materials. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 074002	3	80
28	Thickness-Dependent Refractive Index of 1L, 2L, and 3L MoS ₂ , MoSe ₂ , WS ₂ , and WSe ₂ . <i>Advanced Optical Materials</i> , 2019 , 7, 1900239	8.1	80
27	Valley Zeeman Splitting and Valley Polarization of Neutral and Charged Excitons in Monolayer MoTe ₂ at High Magnetic Fields. <i>Nano Letters</i> , 2016 , 16, 3624-9	11.5	73
26	Two-octave spanning supercontinuum generation in stoichiometric silicon nitride waveguides pumped at telecom wavelengths. <i>Optics Express</i> , 2017 , 25, 1542-1554	3.3	64
25	Magnetic-Field-Induced Rotation of Polarized Light Emission from Monolayer WS ₂ . <i>Physical Review Letters</i> , 2016 , 117, 077402	7.4	63

24	The fluorescence intermittency for quantum dots is not power-law distributed: a luminescence intensity resolved approach. <i>ACS Nano</i> , 2014 , 8, 3506-21	16.7	55
23	Interlayer excitons in a bulk van der Waals semiconductor. <i>Nature Communications</i> , 2017 , 8, 639	17.4	52
22	On-Chip Waveguide Coupling of a Layered Semiconductor Single-Photon Source. <i>Nano Letters</i> , 2017 , 17, 5446-5451	11.5	52
21	Inverted valley polarization in optically excited transition metal dichalcogenides. <i>Nature Communications</i> , 2018 , 9, 971	17.4	38
20	Phonon-assisted emission and absorption of individual color centers in hexagonal boron nitride. <i>2D Materials</i> , 2019 , 6, 035006	5.9	36
19	Thickness determination of MoS ₂ , MoSe ₂ , WS ₂ and WSe ₂ on transparent stamps used for deterministic transfer of 2D materials. <i>Nano Research</i> , 2019 , 12, 1691-1695	10	30
18	Ultrafast dynamics in monolayer transition metal dichalcogenides: Interplay of dark excitons, phonons, and intervalley exchange. <i>Physical Review Research</i> , 2019 , 1,	3.9	24
17	Change point analysis of matrix dependent photoluminescence intermittency of single CdSe/ZnS quantum dots with intermediate intensity levels. <i>Chemical Physics</i> , 2012 , 406, 9-14	2.3	19
16	Valley dynamics of excitons in monolayer dichalcogenides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700131	2.5	17
15	Strain transfer across grain boundaries in MoS ₂ monolayers grown by chemical vapor deposition. <i>2D Materials</i> , 2018 , 5, 031003	5.9	16
14	Exciton broadening and band renormalization due to Dexter-like intervalley coupling. <i>2D Materials</i> , 2018 , 5, 025011	5.9	12
13	Incorporation of oxygen atoms as a mechanism for photoluminescence enhancement of chemically treated MoS ₂ . <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16918-16923	3.6	12
12	Strain-dependent exciton diffusion in transition metal dichalcogenides. <i>2D Materials</i> , 2021 , 8, 015030	5.9	11
11	Zeeman spectroscopy of excitons and hybridization of electronic states in few-layer WSe ₂ , MoSe ₂ and MoTe ₂ . <i>2D Materials</i> , 2019 , 6, 015010	5.9	11
10	Strain tuning of the Stokes shift in atomically thin semiconductors. <i>Nanoscale</i> , 2020 , 12, 20786-20796	7.7	8
9	Theory of the Coherent Response of Magneto-Excitons and Magneto-Biexcitons in Monolayer Transition Metal Dichalcogenides. <i>Physical Review B</i> , 2020 , 102,	3.3	6
8	Assembly of large hBN nanocrystal arrays for quantum light emission. <i>2D Materials</i> , 2021 , 8, 035005	5.9	6
7	Single-Photon Emitters: Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe ₂ (Adv. Mater. 33/2016). <i>Advanced Materials</i> , 2016 , 28, 7032-7032	24	3

6	Biaxial strain in atomically thin transition metal dichalcogenides 2017 ,		3
5	Photoluminescence Emission and Raman Response of MoS ₂ , MoSe ₂ , and WSe ₂ Nanolayers 2013 ,		3
4	Dark exciton anti-funneling in atomically thin semiconductors. <i>Nature Communications</i> , 2021 , 12, 7221	17.4	2
3	Anisotropic exciton diffusion in atomically-thin semiconductors. <i>2D Materials</i> , 2022 , 9, 025008	5.9	1
2	Polarization contrast scattering spectroscopy of individual metal nanoantennas. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1		1.9
1	Correlation of Intermittency of Quantum Dot Photoluminescence Intensity, Decay Time, and Energy. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800334		1.3