Robert Schmidt

List of Publications by Year in Descending Order

41 papers	3,203 citations	24 h-index	50 g-index
50 ext. papers	3,878 ext. citations	8.5 avg, IF	4.95 L-index

#	Paper	IF	Citations
41	Anisotropic exciton diffusion in atomically-thin semiconductors. *2D Materials*, **2022**, 9, 025008	5.9	1
40	Strain-dependent exciton diffusion in transition metal dichalcogenides. *2D Materials*, **2021**, 8, 015030	5.9	11
39	Assembly of large hBN nanocrystal arrays for quantum light emission. *2D Materials*, **2021**, 8, 035005	5.9	6
38	Dark exciton anti-funneling in atomically thin semiconductors. *Nature Communications*, **2021**, 12, 7221	17.4	2
37	Strain tuning of the Stokes shift in atomically thin semiconductors. *Nanoscale*, **2020**, 12, 20786-20796	7.7	8
36	Theory of the Coherent Response of Magneto-Excitons and Magneto-Biexcitons in Monolayer Transition Metal Dichalcogenides. *Physical Review B*, **2020**, 102,	3.3	6
35	Thickness-Dependent Refractive Index of 1L, 2L, and 3L MoS2, MoSe2, WS2, and WSe2. *Advanced Optical Materials*, **2019**, 7, 1900239	8.1	80
34	Thickness determination of MoS2, MoSe2, WS2 and WSe2 on transparent stamps used for deterministic transfer of 2D materials. *Nano Research*, **2019**, 12, 1691-1695	10	30
33	Phonon-assisted emission and absorption of individual color centers in hexagonal boron nitride. *2D Materials*, **2019**, 6, 035006	5.9	36
32	Ultrafast dynamics in monolayer transition metal dichalcogenides: Interplay of dark excitons, phonons, and intervalley exchange. *Physical Review Research*, **2019**, 1,	3.9	24
31	Correlation of Intermittency of Quantum Dot Photoluminescence Intensity, Decay Time, and Energy. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1800334	1.3	
30	Zeeman spectroscopy of excitons and hybridization of electronic states in few-layer WSe 2 , MoSe 2 and MoTe 2. *2D Materials*, **2019**, 6, 015010	5.9	11
29	Exciton broadening and band renormalization due to Dexter-like intervalley coupling. *2D Materials*, **2018**, 5, 025011	5.9	12
28	Strain Control of Exciton-Phonon Coupling in Atomically Thin Semiconductors. *Nano Letters*, **2018**, 18, 1751-1757	11.5	121
27	Strain transfer across grain boundaries in MoS 2 monolayers grown by chemical vapor deposition. *2D Materials*, **2018**, 5, 031003	5.9	16
26	Inverted valley polarization in optically excited transition metal dichalcogenides. *Nature Communications*, **2018**, 9, 971	17.4	38
25	Incorporation of oxygen atoms as a mechanism for photoluminescence enhancement of chemically treated MoS. *Physical Chemistry Chemical Physics*, **2018**, 20, 16918-16923	3.6	12

24	Thickness-Dependent Differential Reflectance Spectra of Monolayer and Few-Layer MoS$_2$, MoSe$_2$, WS$_2$ and WSe$_2$. *Nanomaterials*, **2018**, 8,	5.4	106
23	Micro-reflectance and transmittance spectroscopy: a versatile and powerful tool to characterize 2D materials. *Journal Physics D: Applied Physics*, **2017**, 50, 074002	3	80
22	Highly Anisotropic in-Plane Excitons in Atomically Thin and Bulklike 1T′ ReSe$_2$. *Nano Letters*, **2017**, 17, 3202-3207	11.5	86
21	Valley dynamics of excitons in monolayer dichalcogenides. *Physica Status Solidi - Rapid Research Letters*, **2017**, 11, 1700131	2.5	17
20	Biaxial strain tuning of the optical properties of single-layer transition metal dichalcogenides. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	118
19	Phonon Sidebands in Monolayer Transition Metal Dichalcogenides. *Physical Review Letters*, **2017**, 119, 187402	7.4	100
18	Interlayer excitons in a bulk van der Waals semiconductor. *Nature Communications*, **2017**, 8, 639	17.4	52
17	On-Chip Waveguide Coupling of a Layered Semiconductor Single-Photon Source. *Nano Letters*, **2017**, 17, 5446-5451	11.5	52
16	Polarization contrast scattering spectroscopy of individual metal nanoantennas. *Applied Physics B: Lasers and Optics*, **2017**, 123, 1	1.9	
15	Two-octave spanning supercontinuum generation in stoichiometric silicon nitride waveguides pumped at telecom wavelengths. *Optics Express*, **2017**, 25, 1542-1554	3.3	64
14	Biaxial strain in atomically thin transition metal dichalcogenides **2017**,		3
13	Single-Photon Emitters: Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe2 (Adv. Mater. 33/2016). *Advanced Materials*, **2016**, 28, 7032-7032	24	3
12	Magnetic-Field-Induced Rotation of Polarized Light Emission from Monolayer WS_{2}. *Physical Review Letters*, **2016**, 117, 077402	7.4	63
11	Trion fine structure and coupled spin-valley dynamics in monolayer tungsten disulfide. *Nature Communications*, **2016**, 7, 12715	17.4	185
10	Reversible uniaxial strain tuning in atomically thin WSe 2. *2D Materials*, **2016**, 3, 021011	5.9	89
9	Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe2. *Advanced Materials*, **2016**, 28, 7101-5	24	121
8	Ultrafast Coulomb-Induced Intervalley Coupling in Atomically Thin WS2. *Nano Letters*, **2016**, 16, 2945-50	11.5	110
7	Valley Zeeman Splitting and Valley Polarization of Neutral and Charged Excitons in Monolayer MoTe2 at High Magnetic Fields. *Nano Letters*, **2016**, 16, 3624-9	11.5	73

6	Nanoantenna-Enhanced Light–Matter Interaction in Atomically Thin WS2. *ACS Photonics*, **2015**, 2, 1260-1265	6.9	92
5	Single-photon emission from localized excitons in an atomically thin semiconductor. *Optica*, **2015**, 2, 347	8.6	290
4	The fluorescence intermittency for quantum dots is not power-law distributed: a luminescence intensity resolved approach. *ACS Nano*, **2014**, 8, 3506-21	16.7	55
3	Photoluminescence emission and Raman response of monolayer MoS_2, $MoSe_2$, and WSe_2. *Optics Express*, **2013**, 21, 4908-16	3.3	1005
2	Photoluminescence Emission and Raman Response of MoS2, MoSe2, and WSe2 Nanolayers **2013**,		3
1	Change point analysis of matrix dependent photoluminescence intermittency of single CdSe/ZnS quantum dots with intermediate intensity levels. *Chemical Physics*, **2012**, 406, 9-14	2.3	19