Maciej Molas

List of Publications by Year
in descending order

66 papers	2,786 citations	236925 25 h-index	175258 52 g-index
70 all docs	70 docs citations	70 times ranked	3759 citing authors

#	Article	IF	Citations
1	Extended anisotropic phonon dispersion and optical properties of two-dimensional ternary SnSSe. Inorganic Chemistry Frontiers, 2022, 9, 294-301.	6.0	5
2	The effect of dielectric environment on the brightening of neutral and charged dark excitons in WSe2 monolayer. Applied Physics Letters, 2022, 120, .	3.3	5
3	Quantification of Exciton Fine Structure Splitting in a Two-Dimensional Perovskite Compound. Journal of Physical Chemistry Letters, 2022, 13, 4463-4469.	4.6	20
4	Raman spectroscopy of GaSe and InSe post-transition metal chalcogenides layers. Faraday Discussions, 2021, 227, 163-170.	3.2	43
5	Excitonic Complexes in n-Doped WS₂ Monolayer. Nano Letters, 2021, 21, 2519-2525.	9.1	35
6	Evidence for nesting-driven charge density wave instabilities in the quasi-two-dimensional material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaAgSb</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review Research, 2021, 3, .	3.6	11
7	The optical response of artificially twisted MoS$$_2$$ bilayers. Scientific Reports, 2021, 11, 17037.	3.3	10
8	Photoluminescence as a probe of phosphorene properties. Npj 2D Materials and Applications, 2021, 5, .	7.9	11
9	Resonance and antiresonance in Raman scattering in GaSe and InSe crystals. Scientific Reports, 2021, 11, 924.	3.3	6
10	Exposing the trion's fine structure by controlling the carrier concentration in hBN-encapsulated MoS₂. Nanoscale, 2021, 13, 18726-18733.	5.6	14
11	Anisotropic Optical and Vibrational Properties of GeS. Nanomaterials, 2021, 11, 3109.	4.1	7
12	Exciton-polaritons in multilayer WSe ₂ in a planar microcavity. 2D Materials, 2020, 7, 015006.	4.4	19
13	Temperature dependence of photoluminescence lifetime of atomically-thin WSe2 layer. Nanotechnology, 2020, 31, 135002.	2.6	2
14	The optical signature of few-layer ReSe2. Journal of Applied Physics, 2020, 128, .	2.5	17
15	Valley polarization of singlet and triplet trions in a WS₂ monolayer in magnetic fields. Physical Chemistry Chemical Physics, 2020, 22, 19155-19161.	2.8	16
16	Measurement of the spin-forbidden dark excitons in MoS2 and MoSe2 monolayers. Nature Communications, 2020, 11, 4037.	12.8	86
17	Neutral and charged dark excitons in monolayer WS₂. Nanoscale, 2020, 12, 18153-18159.	5.6	22
18	Breathing modes in few-layer MoTe2 activated by h-BN encapsulation. Applied Physics Letters, 2020, 116, .	3.3	8

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19	The effect of metallic substrates on the optical properties of monolayer MoSe2. Scientific Reports, 2020, 10, 4981.	3.3	10
20	Probing and Manipulating Valley Coherence of Dark Excitons in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></r Physical Review Letters, 2019, 123, 096803.	7.8	49
21	Energy Spectrum of Two-Dimensional Excitons in a Nonuniform Dielectric Medium. Physical Review Letters, 2019, 123, 136801.	7.8	56
22	Upconverted electroluminescence via Auger scattering of interlayer excitons in van der Waals heterostructures. Nature Communications, 2019, 10, 2335.	12.8	51
23	Magneto-spectroscopy of exciton Rydberg states in a CVD grown WSe2 monolayer. Applied Physics Letters, 2019, 114, .	3.3	17
24	Valley polarization of excitonâ€“polaritons in monolayer WSe₂ in a tunable microcavity. Nanoscale, 2019, 11, 9574-9579.	5.6	17
25	Resonantly hybridized excitons in moirÃ© superlattices in van der Waals heterostructures. Nature, 2019, 567, 81-86.	27.8	621
26	Fine structure of K-excitons in multilayers of transition metal dichalcogenides. 2D Materials, 2019, 6, 025026.	4.4	28
27	Tuning carrier concentration in a superacid treated MoS2 monolayer. Scientific Reports, 2019, 9, 1989.	3.3	18
28	Zeeman spectroscopy of excitons and hybridization of electronic states in few-layer WSe ₂ , MoSe ₂ and MoTe ₂. 2D Materials, 2019, 6, 015010.	4.4	22
29	Orbital, spin and valley contributions to Zeeman splitting of excitonic resonances in MoSe ₂ , WSe ₂ and WS ₂ Monolayers. 2D Materials, 2019, 6, 015001.	4.4	85
30	Emission Excitation Spectroscopy in WS₂ Monolayer Encapsulated in Hexagonal BN. Acta Physica Polonica A, 2019, 136, 624-627.	0.5	4
31	Impact of environment on dynamics of exciton complexes in a WS ₂ monolayer. 2D Materials, 2018, 5, 031007.	4.4	39
32	Crystal-Phase Quantum Wires: One-Dimensional Heterostructures with Atomically Flat Interfaces. Nano Letters, 2018, 18, 247-254.	9.1	7
33	Magnetic field induced polarization enhancement in monolayers of tungsten dichalcogenides: effects of temperature. 2D Materials, 2018, 5, 015023.	4.4	8
34	Raman scattering from the bulk inactive outâ€“ofâ€“plane $${{f{B}}}_{{f{2}}{f{g}}}^{{f{1}}}$$ mode in fewâ€“layer MoTe2. Scientific Reports, 2018, 8, 17745.	3.3	12
35	Singlet and triplet trions in WS₂ monolayer encapsulated in hexagonal boron nitride. Nanotechnology, 2018, 29, 325705.	2.6	63
36	Valley-contrasting optics of interlayer excitons in Mo- and W-based bulk transition metal dichalcogenides. Nanoscale, 2018, 10, 15571-15577.	5.6	31

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37	Brightening of dark excitons in monolayers of semiconducting transition metal dichalcogenides. 2D Materials, 2017, 4, 021003.	4.4	192
38	Sub-bandgap Voltage Electroluminescence and Magneto-oscillations in a WSe₂ Light-Emitting van der Waals Heterostructure. Nano Letters, 2017, 17, 1425-1430.	9.1	41
39	Anomalous Raman Scattering In Few Monolayer MoTe2. MRS Advances, 2017, 2, 1539-1544.	0.9	1
40	Resonant quenching of Raman scattering due to out-of-plane A1g/Aâ€²1 modes in few-layer MoTe2. Nanophotonics, 2017, 6, 1281-1288.	6.0	16
41	Optical properties of atomically thin transition metal dichalcogenides: observations and puzzles. Nanophotonics, 2017, 6, 1289-1308.	6.0	165
42	Interlayer excitons in a bulk van der Waals semiconductor. Nature Communications, 2017, 8, 639.	12.8	76
43	Raman scattering excitation spectroscopy of monolayer WS2. Scientific Reports, 2017, 7, 5036.	3.3	63
44	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>s</mml:mi></mml:mrow></mml:m exciton-polariton revealed in an external magnetic field. Physical Review B, 2017, 96, .	3.2	8
45	The optical response of monolayer, few-layer and bulk tungsten disulfide. Nanoscale, 2017, 9, 13128-13141.	5.6	97
46	Quadexciton cascade and fine-structure splitting of the triexciton in a single quantum dot. Europhysics Letters, 2016, 113, 17004.	2.0	4
47	Raman scattering of few-layers MoTe ₂. 2D Materials, 2016, 3, 025010.	4.4	67
48	The direct-to-indirect band gap crossover in two-dimensional van der Waals Indium Selenide crystals. Scientific Reports, 2016, 6, 39619.	3.3	150
49	Energy spectrum of confined positively charged excitons in single quantum dots. Physical Review B, 2016, 94, .	3.2	2
50	Rhombohedral Multilayer Graphene: A Magneto-Raman Scattering Study. Nano Letters, 2016, 16, 3710-3716.	9.1	51
51	Valley Zeeman Splitting and Valley Polarization of Neutral and Charged Excitons in Monolayer MoTe₂ at High Magnetic Fields. Nano Letters, 2016, 16, 3624-3629.	9.1	102
52	The excited spin-triplet state of a charged exciton in quantum dots. Journal of Physics Condensed Matter, 2016, 28, 365301.	1.8	3
53	The Effect of Substrate on Vibrational Properties of Single-Layer MoS_2. Acta Physica Polonica A, 2016, 130, 1172-1175.	0.5	3
54	Strong Photoluminescence Fluctuations in Laser-Thinned Few-Layer WS_{2}. Acta Physica Polonica A, 2016, 130, 1176-1178.	0.5	3

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55	Excitonic complexes in natural InAs/GaAs quantum dots. Physical Review B, 2015, 91, .	3.2	30
56	Magnetic field tuning of exciton-polaritons in a semiconductor microcavity. Physical Review B, 2015, 91, .	3.2	41
57	Exciton band structure in layered MoSe₂: from a monolayer to the bulk limit. Nanoscale, 2015, 7, 20769-20775.	5.6	163
58	Magnetic Field Effect on the Excitation Spectrum of a Neutral Exciton in a Single Quantum Dot. Acta Physica Polonica A, 2014, 126, 1066-1068.	0.5	1
59	Properties of Excitons in Quantum Dots with a Weak Confinement. Acta Physica Polonica A, 2013, 124, 781-784.	0.5	2
60	Intershell Exchange Interaction in Charged GaAlAs Quantum Dots. Acta Physica Polonica A, 2013, 124, 785-787.	0.5	4
61	The effect of In-flush on the optical anisotropy of InAs/GaAs quantum dots. Journal of Applied Physics, 2012, 111, 033510.	2.5	6
62	Fine Structure of Neutral Excitons in Single GaAlAs Quantum Dots. Acta Physica Polonica A, 2012, 122, 988-990.	0.5	6
63	The Fine Structure of a Triexciton in Single InAs/GaAs Quantum Dots. Acta Physica Polonica A, 2012, 122, 991-993.	0.5	4
64	Quantum Confinement in InAs/GaAs Systems with Self-Assembled Quantum Dots Grown Using In-Flush Technique. Acta Physica Polonica A, 2011, 119, 624-626.	0.5	0
65	Quantum confinement in MOVPE-grown structures with self-assembled InAs/GaAs quantum dots. Journal of Physics: Conference Series, 2010, 245, 012079.	0.4	0
66	Free Carrier Scattering in Metallic n-GaAs in the Presence of Static Lattice Distortions Due to a Partial Chemical Order of Impurities. Acta Physica Polonica A, 2009, 116, 979-982.	0.5	4