

Xavier Marie

List of Publications by Year in descending order

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37
papers

5,956
citations

147801

31
h-index

345221

36
g-index

37
all docs

37
docs citations

37
times ranked

6064
citing authors

#	ARTICLE	IF	CITATIONS
1	Second harmonic generation control in twisted bilayers of transition metal dichalcogenides. Physical Review B, 2022, 105, .	3.2	15
2	Guide to optical spectroscopy of layered semiconductors. Nature Reviews Physics, 2021, 3, 39-54.	26.6	41
3	Efficient phonon cascades in WSe2 monolayers. Nature Communications, 2021, 12, 538.	12.8	34
4	Control of the exciton valley dynamics in atomically thin semiconductors by tailoring the environment. Physical Review B, 2021, 103, .	3.2	15
5	Interlayer exciton mediated second harmonic generation in bilayer MoS2. Nature Communications, 2021, 12, 6894.	12.8	38
6	Spin dependent charge transfer in MoSe ₂ /hBN/Ni hybrid structures. Applied Physics Letters, 2021, 119, 263103.	3.3	0
7	High optical quality of MoS ₂ monolayers grown by chemical vapor deposition. 2D Materials, 2020, 7, 015011.	4.4	76
8	Unveiling the Optical Emission Channels of Monolayer Semiconductors Coupled to Silicon Nanoantennas. ACS Photonics, 2020, 7, 3106-3115.	6.6	16
9	Giant Stark splitting of an exciton in bilayer MoS2. Nature Nanotechnology, 2020, 15, 901-907.	31.5	72
10	Measurement of the spin-forbidden dark excitons in MoS2 and MoSe2 monolayers. Nature Communications, 2020, 11, 4037.	12.8	86
11	Exciton valley depolarization in monolayer transition-metal dichalcogenides. Physical Review B, 2020, 101, .	3.2	23
12	Controlling interlayer excitons in MoS2 layers grown by chemical vapor deposition. Nature Communications, 2020, 11, 2391.	12.8	73
13	Control of the Exciton Radiative Lifetime in van der Waals Heterostructures. Physical Review Letters, 2019, 123, 067401.	7.8	85
14	Revealing exciton masses and dielectric properties of monolayer semiconductors with high magnetic fields. Nature Communications, 2019, 10, 4172.	12.8	179
15	Interlayer excitons in bilayer MoS_2 with strong oscillator strength up to room temperature. Physical Review B, 2019, 99, .	12.8	88
16	<i>Colloquium</i> : Excitons in atomically thin transition metal dichalcogenides. Reviews of Modern Physics, 2018, 90, .	45.6	1,292
17	Exciton diffusion in WSe2 monolayers embedded in a van der Waals heterostructure. Applied Physics Letters, 2018, 112, .	3.3	114
18	Observation of exciton-phonon coupling in MoSe_2 monolayers. Physical Review B, 2018, 98, .	3.2	105

#	ARTICLE	IF	CITATIONS
19	Optical spectroscopy of excited exciton states in MoS_2 monolayers in van der Waals heterostructures. Physical Review Materials, 2018, 2, .		
20	Enabling valley selective exciton scattering in monolayer WSe ₂ through upconversion. Nature Communications, 2017, 8, 14927.	12.8	124
21	Gate-Controlled Spin-Valley Locking of Resident Carriers in WSe_2 Monolayers. Physical Review Letters, 2017, 119, 137401.	7.8	107
22	Fine structure and lifetime of dark excitons in transition metal dichalcogenide monolayers. Physical Review B, 2017, 96, .	3.2	141
23	In-Plane Propagation of Light in Transition Metal Dichalcogenide Monolayers: Optical Selection Rules. Physical Review Letters, 2017, 119, 047401.	7.8	257
24	Charged excitons in monolayer WSe_2 : Experiment and theory. Physical Review B, 2017, 96, .	3.2	207
25	Intrinsic exciton-state mixing and nonlinear optical properties in transition metal dichalcogenide monolayers. Physical Review B, 2017, 95, .	3.2	60
26	Exciton radiative lifetime in transition metal dichalcogenide monolayers. Physical Review B, 2016, 93, .	3.2	335
27	Splitting between bright and dark excitons in transition metal dichalcogenide monolayers. Physical Review B, 2016, 93, .	3.2	212
28	Control of Exciton Valley Coherence in Transition Metal Dichalcogenide Monolayers. Physical Review Letters, 2016, 117, 187401.	7.8	126
29	Excitonic properties of semiconducting monolayer and bilayer MoT_2 . Physical Review B, 2016, 94, .	3.2	60
30	Spin-orbit engineering in transition metal dichalcogenide alloy monolayers. Nature Communications, 2015, 6, 10110.	12.8	176
31	Exciton states in monolayer MoSe_2 : impact on interband transitions. 2D Materials, 2015, 2, 045005.	4.4	71
32	Giant Enhancement of the Optical Second-Harmonic Emission of WSe_2 by Laser Excitation at Exciton Resonances. Physical Review Letters, 2015, 114, 097403.	7.8	464
33	Carrier and Polarization Dynamics in Monolayer MoS_2 . Physical Review Letters, 2014, 112, 047401.	7.8	317
34	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS_2 . Physical Review B, 2013, 88, .	3.2	365
35	Robust optical emission polarization in MoS_2 monolayers through selective valley excitation. Physical Review B, 2012, 86, .	3.2	385
36	Time-Resolved Optical Spectroscopy. Springer Series in Materials Science, 2012, , 223-258.	0.6	1

#	ARTICLE	IF	CITATIONS
37	Spin Quantum Beats of 2D Excitons. Physical Review Letters, 1997, 78, 1355-1358.	7.8	124