

Xavier Marie

List of Publications by Year in descending order

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37
papers

5,956
citations

147801

31
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345221

36
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37
docs citations

37
times ranked

6064
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Colloquium</i> : Excitons in atomically thin transition metal dichalcogenides. <i>Reviews of Modern Physics</i> , 2018, 90, .	45.6	1,292
2	Giant Enhancement of the Optical Second-Harmonic Emission of WSe_2 by Laser Excitation at Exciton Resonances. <i>Physical Review Letters</i> , 2015, 114, 097403.	7.8	464
3	Robust optical emission polarization in MoS ₂ monolayers through selective valley excitation. <i>Physical Review B</i> , 2012, 86, .	3.2	385
4	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS ₂ . <i>Physical Review B</i> , 2013, 88, .	3.2	365
5	Exciton radiative lifetime in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2016, 93, .	3.2	335
6	Carrier and Polarization Dynamics in Monolayer MoS ₂ . <i>Physical Review Letters</i> , 2014, 112, 047401.	7.8	317
7	In-Plane Propagation of Light in Transition Metal Dichalcogenide Monolayers: Optical Selection Rules. <i>Physical Review Letters</i> , 2017, 119, 047401.	7.8	257
8	Splitting between bright and dark excitons in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2016, 93, .	3.2	212
9	Charged excitons in monolayer WSe_2 : Experiment and theory. <i>Physical Review B</i> , 2017, 96, .	3.2	207
10	Revealing exciton masses and dielectric properties of monolayer semiconductors with high magnetic fields. <i>Nature Communications</i> , 2019, 10, 4172.	12.8	179
11	Spin-orbit engineering in transition metal dichalcogenide alloy monolayers. <i>Nature Communications</i> , 2015, 6, 10110.	12.8	176
12	Fine structure and lifetime of dark excitons in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2017, 96, .	3.2	141
13	Control of Exciton Valley Coherence in Transition Metal Dichalcogenide Monolayers. <i>Physical Review Letters</i> , 2016, 117, 187401.	7.8	126
14	Spin Quantum Beats of 2D Excitons. <i>Physical Review Letters</i> , 1997, 78, 1355-1358.	7.8	124
15	Enabling valley selective exciton scattering in monolayer WSe_2 through upconversion. <i>Nature Communications</i> , 2017, 8, 14927.	12.8	124
16	Exciton diffusion in WSe_2 monolayers embedded in a van der Waals heterostructure. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	114
17	Gate-Controlled Spin-Valley Locking of Resident Carriers in WSe_2 Monolayers. <i>Physical Review Letters</i> , 2017, 119, 137401.	7.8	107
18	Observation of exciton-phonon coupling in $MoSe_2$ monolayers. <i>Physical Review B</i> , 2018, 98, .	3.2	103

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19	Interlayer excitons in bilayer MoS_2 with strong oscillator strength up to room temperature. <i>Physical Review B</i> , 2019, 99, .	12.8	86
20	Measurement of the spin-forbidden dark excitons in MoS_2 and MoSe_2 monolayers. <i>Nature Communications</i> , 2020, 11, 4037.	12.8	86
21	Control of the Exciton Radiative Lifetime in van der Waals Heterostructures. <i>Physical Review Letters</i> , 2019, 123, 067401.	7.8	85
22	High optical quality of MoS_2 monolayers grown by chemical vapor deposition. <i>2D Materials</i> , 2020, 7, 015011.	4.4	76
23	Optical spectroscopy of excited exciton states in MoS_2 monolayers in van der Waals heterostructures. <i>Physical Review Materials</i> , 2018, 2, .	3.2	75
24	Controlling interlayer excitons in MoS_2 layers grown by chemical vapor deposition. <i>Nature Communications</i> , 2020, 11, 2391.	12.8	73
25	Giant Stark splitting of an exciton in bilayer MoS_2 . <i>Nature Nanotechnology</i> , 2020, 15, 901-907.	31.5	72
26	Exciton states in monolayer MoSe_2 : impact on interband transitions. <i>2D Materials</i> , 2015, 2, 045005.	4.4	71
27	Excitonic properties of semiconducting monolayer and bilayer MoT . <i>Physical Review B</i> , 2016, 94, .	3.2	60
28	Intrinsic exciton-state mixing and nonlinear optical properties in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2017, 95, .	3.2	60
29	Guide to optical spectroscopy of layered semiconductors. <i>Nature Reviews Physics</i> , 2021, 3, 39-54.	26.6	41
30	Interlayer exciton mediated second harmonic generation in bilayer MoS_2 . <i>Nature Communications</i> , 2021, 12, 6894.	12.8	38
31	Efficient phonon cascades in WSe_2 monolayers. <i>Nature Communications</i> , 2021, 12, 538.	12.8	34
32	Exciton valley depolarization in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2020, 101, .	3.2	23
33	Unveiling the Optical Emission Channels of Monolayer Semiconductors Coupled to Silicon Nanoantennas. <i>ACS Photonics</i> , 2020, 7, 3106-3115.	6.6	16
34	Control of the exciton valley dynamics in atomically thin semiconductors by tailoring the environment. <i>Physical Review B</i> , 2021, 103, .	3.2	15
35	Second harmonic generation control in twisted bilayers of transition metal dichalcogenides. <i>Physical Review B</i> , 2022, 105, .	3.2	15
36	Time-Resolved Optical Spectroscopy. <i>Springer Series in Materials Science</i> , 2012, , 223-258.	0.6	1

#	ARTICLE	IF	CITATIONS
37	Spin dependent charge transfer in MoSe ₂ /hBN/Ni hybrid structures. Applied Physics Letters, 2021, 119, 263103.	3.3	0