Florian Katsch

List of Publications by Year
in descending order

13	471	932766 10	1125271 13
papers	citations	h-index	g-index

13	13	13	460
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phonon-Assisted Photoluminescence from Indirect Excitons in Monolayers of Transition-Metal Dichalcogenides. Nano Letters, 2020, 20, 2849-2856.	4.5	106
2	Theory of Excitonâ€“Exciton Interactions in Monolayer Transition Metal Dichalcogenides. Physica Status Solidi (B): Basic Research, 2018, 255, 1800185.	0.7	61
3	The ultrafast onset of exciton formation in 2D semiconductors. Nature Communications, 2020, 11, 5277.	5.8	57
4	Ultrafast dynamics in monolayer transition metal dichalcogenides: Interplay of dark excitons, phonons, and intervalley exchange. Physical Review Research, 2019, 1, .	1.3	57
5	Exciton-Scattering-Induced Dephasing in Two-Dimensional Semiconductors. Physical Review Letters, 2020, 124, 257402.	2.9	55
6	Theory of coherent pumpâ€“probe spectroscopy in monolayer transition metal dichalcogenides. 2D Materials, 2020, 7, 015021.	2.0	30
7	Excitons in Bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Displaying a Colossal Electric Field Splitting and Tunable Magnetic Response. Physical Review Letters, 2021, 126, 037401.	2.9	30
8	Suppression of intervalley exchange coupling in the presence of momentum-dark states in transition metal dichalcogenides. Physical Review Research, 2020, 2, .	1.3	23
9	Disentangling Many-Body Effects in the Coherent Optical Response of 2D Semiconductors. Nano Letters, 2022, 22, 5322-5329.	4.5	18
10	Optical Preparation and Coherent Control of Ultrafast Nonlinear Quantum Superpositions in Exciton Gases: A Case Study for Atomically Thin Semiconductors. Physical Review X, 2020, 10, .	2.8	12
11	Excitonic theory of doping-dependent optical response in atomically thin semiconductors. Physical Review B, 2022, 105, .	1.1	10
12	Theory of the Coherent Response of Magneto-Excitons and Magneto-Biexcitons in Monolayer Transition Metal Dichalcogenides. Physical Review B, 2020, 102, .	1.1	8
13	Doping-induced non-Markovian interference causes excitonic linewidth broadening in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review B, 2022, 105, .	1.1	4