Kyle L Seyler

List of Publications by Year in Descending Order

25 papers	9,492 citations	20 h-index	27 g-index
27 ext. papers	12,302 ext. citations	23.2 avg, IF	6.07 L-index

#	Paper	IF	Citations
25	Spin photovoltaic effect in magnetic van der Waals heterostructures. *Science Advances*, **2021**, 7, eabg8094	14.3	0
24	Mirror symmetry breaking in a model insulating cuprate. *Nature Physics*, **2021**, 17, 777-781	16.2	4
23	Moir□trions in MoSe/WSe heterobilayers. *Nature Nanotechnology*, **2021**, 16, 1208-1213	28.7	13
22	Layer-resolved magnetic proximity effect in van der Waals heterostructures. *Nature Nanotechnology*, **2020**, 15, 187-191	28.7	66
21	Anisotropic structural dynamics of monolayer crystals revealed by femtosecond surface X-ray scattering. *Nature Photonics*, **2019**, 13, 425-430	33.9	19
20	Signatures of moir□trapped valley excitons in MoSe/WSe heterobilayers. *Nature*, **2019**, 567, 66-70	50.4	486
19	Electrical control of 2D magnetism in bilayer CrI. *Nature Nanotechnology*, **2018**, 13, 544-548	28.7	626
18	Tuning Ising superconductivity with layer and spin-orbit coupling in two-dimensional transition-metal dichalcogenides. *Nature Communications*, **2018**, 9, 1427	17.4	124
17	Giant tunneling magnetoresistance in spin-filter van der Waals heterostructures. *Science*, **2018**, 360, 1214-1218	33.3	555
16	Interlayer valley excitons in heterobilayers of transition metal dichalcogenides. *Nature Nanotechnology*, **2018**, 13, 1004-1015	28.7	218
15	Ligand-field helical luminescence in a 2D ferromagnetic insulator. *Nature Physics*, **2018**, 14, 277-281	16.2	192
14	Valley Manipulation by Optically Tuning the Magnetic Proximity Effect in WSe/CrI Heterostructures. *Nano Letters*, **2018**, 18, 3823-3828	11.5	159
13	Determination of band offsets, hybridization, and exciton binding in 2D semiconductor heterostructures. *Science Advances*, **2017**, 3, e1601832	14.3	208
12	Layer-dependent ferromagnetism in a van der Waals crystal down to the monolayer limit. *Nature*, **2017**, 546, 270-273	50.4	2210
11	Van der Waals engineering of ferromagnetic semiconductor heterostructures for spin and valleytronics. *Science Advances*, **2017**, 3, e1603113	14.3	419
10	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. *Nano Letters*, **2017**, 17, 7761-7766	11.5	29
9	Valleytronics in 2D materials. *Nature Reviews Materials*, **2016**, 1,	73.3	1045

8	Room-temperature ferroelectricity in CuInP2S6 ultrathin flakes. *Nature Communications*, **2016**, 7, 12357	17.4	355
7	Valley-polarized exciton dynamics in a 2D semiconductor heterostructure. *Science*, **2016**, 351, 688-91	33.3	451
6	Strong Circularly Polarized Photoluminescence from Multilayer MoS2 Through Plasma Driven Direct-Gap Transition. *ACS Photonics*, **2016**, 3, 310-314	6.3	9
5	Directional interlayer spin-valley transfer in two-dimensional heterostructures. *Nature Communications*, **2016**, 7, 13747	17.4	80
4	Observation of long-lived interlayer excitons in monolayer MoSe2-WSe2 heterostructures. *Nature Communications*, **2015**, 6, 6242	17.4	896
3	Highly anisotropic and robust excitons in monolayer black phosphorus. *Nature Nanotechnology*, **2015**, 10, 517-21	28.7	999
2	Electrical control of second-harmonic generation in a WSe2 monolayer transistor. *Nature Nanotechnology*, **2015**, 10, 407-11	28.7	300
1	Heterojunction PbS nanocrystal solar cells with oxide charge-transport layers. *ACS Nano*, **2013**, 7, 10938-46	28.7	29