

# Pasqual Rivera

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

21

papers

4,861

citations

14

h-index

28

g-index

28

ext. papers

6,134

ext. citations

18.8

avg, IF

5.52

L-index

#	Paper	IF	Citations
21	Valleytronics in 2D materials. <i>Nature Reviews Materials</i> , <b>2016</b> , 1,	73.3	1045
20	Observation of long-lived interlayer excitons in monolayer MoSe <sub>2</sub> -WSe <sub>2</sub> heterostructures. <i>Nature Communications</i> , <b>2015</b> , 6, 6242	17.4	896
19	Lateral heterojunctions within monolayer MoSe <sub>2</sub> -WSe <sub>2</sub> semiconductors. <i>Nature Materials</i> , <b>2014</b> , 13, 1096-101	73.2	
18	Signatures of moiré-trapped valley excitons in MoSe/WSe heterobilayers. <i>Nature</i> , <b>2019</b> , 567, 66-70	50.4	486
17	Valley-polarized exciton dynamics in a 2D semiconductor heterostructure. <i>Science</i> , <b>2016</b> , 351, 688-91	33.3	451
16	Electrical control of second-harmonic generation in a WSe <sub>2</sub> monolayer transistor. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 407-11	28.7	300
15	Interlayer valley excitons in heterobilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 1004-1015	28.7	218
14	Determination of band offsets, hybridization, and exciton binding in 2D semiconductor heterostructures. <i>Science Advances</i> , <b>2017</b> , 3, e1601832	14.3	208
13	Interlayer Exciton Optoelectronics in a 2D Heterostructure p-n Junction. <i>Nano Letters</i> , <b>2017</b> , 17, 638-643	11.5	193
12	Directional interlayer spin-valley transfer in two-dimensional heterostructures. <i>Nature Communications</i> , <b>2016</b> , 7, 13747	17.4	80
11	Excitons in strain-induced one-dimensional moiré potentials at transition metal dichalcogenide heterojunctions. <i>Nature Materials</i> , <b>2020</b> , 19, 1068-1073	27	79
10	Valley phonons and exciton complexes in a monolayer semiconductor. <i>Nature Communications</i> , <b>2020</b> , 11, 618	17.4	55
9	Vapor-transport growth of high optical quality WSe <sub>2</sub> monolayers a. <i>APL Materials</i> , <b>2014</b> , 2, 101101	5.7	48
8	Population pulsation resonances of excitons in monolayer MoSe <sub>2</sub> with sub-1 eV linewidths. <i>Physical Review Letters</i> , <b>2015</b> , 114, 137402	7.4	20
7	Moirétrions in MoSe/WSe heterobilayers. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 1208-1213	28.7	13
6	Coupling of photonic crystal cavity and interlayer exciton in heterobilayer of transition metal dichalcogenides. <i>2D Materials</i> , <b>2020</b> , 7, 015027	5.9	10
5	Intrinsic donor-bound excitons in ultraclean monolayer semiconductors. <i>Nature Communications</i> , <b>2021</b> , 12, 871	17.4	10

## LIST OF PUBLICATIONS

4	Observation of intravalley phonon scattering of 2s excitons in MoSe <sub>2</sub> and WSe <sub>2</sub> monolayers. <i>2D Materials</i> , <b>2020</b> , 7, 045008	5.9	5
3	Superposition of intra- and inter-layer excitons in twistronic MoSe <sub>2</sub> /WSe <sub>2</sub> bilayers probed by resonant Raman scattering. <i>2D Materials</i> , <b>2021</b> , 8, 035009	5.9	3
2	Monolayer Semiconductor Auger Detector. <i>Nano Letters</i> , <b>2020</b> , 20, 5538-5543	11.5	2
1	Optical Properties of TMD Heterostructures310-328		1