

Ermin Malic

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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.

81

papers

3,855

citations

31

h-index

61

g-index

93

ext. papers

5,026

ext. citations

8

avg, IF

5.97

L-index

#	Paper	IF	Citations
81	Intrinsic homogeneous linewidth and broadening mechanisms of excitons in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , 2015 , 6, 8315	17.4	309
80	Exciton physics and device application of two-dimensional transition metal dichalcogenide semiconductors. <i>Npj 2D Materials and Applications</i> , 2018 , 2,	8.8	267
79	Carrier multiplication in graphene. <i>Nano Letters</i> , 2010 , 10, 4839-43	11.5	256
78	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , 2016 , 7, 13279	17.4	248
77	Carrier relaxation in epitaxial graphene photoexcited near the Dirac point. <i>Physical Review Letters</i> , 2011 , 107, 237401	7.4	220
76	Microscopic theory of absorption and ultrafast many-particle kinetics in graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	210
75	Analytical approach to excitonic properties of MoS ₂ . <i>Physical Review B</i> , 2014 , 89,	3.3	154
74	Trion formation dynamics in monolayer transition metal dichalcogenides. <i>Physical Review B</i> , 2016 , 93,	3.3	127
73	Dielectric disorder in two-dimensional materials. <i>Nature Nanotechnology</i> , 2019 , 14, 832-837	28.7	125
72	Strain Control of Exciton-Phonon Coupling in Atomically Thin Semiconductors. <i>Nano Letters</i> , 2018 , 18, 1751-1757	11.5	121
71	Impact of Auger processes on carrier dynamics in graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	110
70	Ultrafast Coulomb-Induced Intervalley Coupling in Atomically Thin WS ₂ . <i>Nano Letters</i> , 2016 , 16, 2945-50	11.5	110
69	Phonon Sidebands in Monolayer Transition Metal Dichalcogenides. <i>Physical Review Letters</i> , 2017 , 119, 187402	7.4	100
68	Ultrafast transition between exciton phases in van der Waals heterostructures. <i>Nature Materials</i> , 2019 , 18, 691-696	27	96
67	Dark excitons in transition metal dichalcogenides. <i>Physical Review Materials</i> , 2018 , 2,	3.2	96
66	Dark and bright exciton formation, thermalization, and photoluminescence in monolayer transition metal dichalcogenides. <i>2D Materials</i> , 2018 , 5, 035017	5.9	89
65	2013 ,		74

64	Interlayer exciton dynamics in van der Waals heterostructures. <i>Communications Physics</i> , 2019 , 2,	5.4	55
63	Exciton Relaxation Cascade in two-dimensional Transition Metal Dichalcogenides. <i>Scientific Reports</i> , 2018 , 8, 8238	4.9	55
62	Phonon-Assisted Photoluminescence from Indirect Excitons in Monolayers of Transition-Metal Dichalcogenides. <i>Nano Letters</i> , 2020 , 20, 2849-2856	11.5	51
61	Proposal for dark exciton based chemical sensors. <i>Nature Communications</i> , 2017 , 8, 14776	17.4	47
60	Exciton diffusion in monolayer semiconductors with suppressed disorder. <i>Physical Review B</i> , 2020 , 101,	3.3	44
59	The role of momentum-dark excitons in the elementary optical response of bilayer WSe. <i>Nature Communications</i> , 2018 , 9, 2586	17.4	41
58	Impact of strain on the optical fingerprint of monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2017 , 96,	3.3	41
57	Intrinsic lifetime of higher excitonic states in tungsten diselenide monolayers. <i>Nanoscale</i> , 2019 , 11, 12381-12387	17.4	40
56	Inverted valley polarization in optically excited transition metal dichalcogenides. <i>Nature Communications</i> , 2018 , 9, 971	17.4	38
55	Exciton Propagation and Halo Formation in Two-Dimensional Materials. <i>Nano Letters</i> , 2019 , 19, 7317-7323	11.5	37
54	Microscopic description of intraband absorption in graphene: the occurrence of transient negative differential transmission. <i>Physical Review Letters</i> , 2014 , 113, 035502	7.4	37
53	Mapping of the dark exciton landscape in transition metal dichalcogenides. <i>Physical Review B</i> , 2018 , 98,	3.3	33
52	Dielectric Engineering of Electronic Correlations in a van der Waals Heterostructure. <i>Nano Letters</i> , 2018 , 18, 1402-1409	11.5	32
51	Excitonic Rayleigh scattering spectra of metallic single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	31
50	Impact of strain on the excitonic linewidth in transition metal dichalcogenides. <i>2D Materials</i> , 2019 , 6, 015015	5.9	30
49	Twist-tailoring Coulomb correlations in van der Waals homobilayers. <i>Nature Communications</i> , 2020 , 11, 2167	17.4	27
48	Enhancement of Exciton-Phonon Scattering from Monolayer to Bilayer WS. <i>Nano Letters</i> , 2018 , 18, 6135-6143	11.5	27
47	Impact of doping on the carrier dynamics in graphene. <i>Scientific Reports</i> , 2015 , 5, 16841	4.9	26

46	Theory of exciton dynamics in time-resolved ARPES: Intra- and intervalley scattering in two-dimensional semiconductors. <i>Physical Review B</i> , 2019 , 100,	3.3	25
45	Towards a tunable graphene-based Landau level laser in the terahertz regime. <i>Scientific Reports</i> , 2015 , 5, 12646	4.9	25
44	Ultrafast carrier dynamics in Landau-quantized graphene. <i>Nanophotonics</i> , 2015 , 4, 224-249	6.3	24
43	Ultrafast dynamics in monolayer transition metal dichalcogenides: Interplay of dark excitons, phonons, and intervalley exchange. <i>Physical Review Research</i> , 2019 , 1,	3.9	24
42	Graphene as gain medium for broadband lasers. <i>Physical Review B</i> , 2015 , 92,	3.3	22
41	Hybridized intervalley moiré excitons and flat bands in twisted WSe bilayers. <i>Nanoscale</i> , 2020 , 12, 11088-11094	11.9	21
40	Carrier Dynamics in Graphene: Ultrafast Many-Particle Phenomena. <i>Annalen Der Physik</i> , 2017 , 529, 1700038	11.3	19
39	Tunable Phases of Moiré Excitons in van der Waals Heterostructures. <i>Nano Letters</i> , 2020 , 20, 8534-8540	11.5	18
38	Negative effective excitonic diffusion in monolayer transition metal dichalcogenides. <i>Nanoscale</i> , 2020 , 12, 356-363	7.7	16
37	The Art of Constructing Black Phosphorus Nanosheet Based Heterostructures: From 2D to 3D. <i>Advanced Materials</i> , 2021 , 33, e2005254	24	16
36	Ultrafast momentum imaging of pseudospin-flip excitations in graphene. <i>Physical Review B</i> , 2017 , 96,	3.3	14
35	Dark exciton based strain sensing in tungsten-based transition metal dichalcogenides. <i>Physical Review B</i> , 2019 , 99,	3.3	13
34	Direct measurement of key exciton properties: Energy, dynamics, and spatial distribution of the wave function. <i>Natural Sciences</i> , 2021 , 1, e10010		13
33	Review on carrier multiplication in graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2303-2310		13
32	Exciton broadening and band renormalization due to Dexter-like intervalley coupling. <i>2D Materials</i> , 2018 , 5, 025011	5.9	12
31	Suppression of intervalley exchange coupling in the presence of momentum-dark states in transition metal dichalcogenides. <i>Physical Review Research</i> , 2020 , 2,	3.9	12
30	Strain-dependent exciton diffusion in transition metal dichalcogenides. <i>2D Materials</i> , 2021 , 8, 015030	5.9	11
29	Momentum-Resolved Observation of Exciton Formation Dynamics in Monolayer WS. <i>Nano Letters</i> , 2021 , 21, 5867-5873	11.5	11

28	Theory of optically induced Förster coupling in van der Waals coupled heterostructures. <i>Physical Review B</i> , 2019 , 99,	3.3	11
27	Nonclassical Exciton Diffusion in Monolayer WSe ₂ . <i>Physical Review Letters</i> , 2021 , 127, 076801	7.4	11
26	Exciton-exciton interaction in transition metal dichalcogenide monolayers and van der Waals heterostructures. <i>Physical Review B</i> , 2021 , 103,	3.3	11
25	Microscopic modeling of tunable graphene-based terahertz Landau-level lasers. <i>Physical Review B</i> , 2017 , 96,	3.3	9
24	Symmetry-Breaking Supercollisions in Landau-Quantized Graphene. <i>Physical Review Letters</i> , 2017 , 119, 067405	7.4	9
23	Temporal Evolution of Low-Temperature Phonon Sidebands in Transition Metal Dichalcogenides. <i>ACS Photonics</i> , 2020 , 7, 2756-2764	6.3	9
22	Experimentally accessible signatures of Auger scattering in graphene. <i>Physical Review B</i> , 2016 , 94,	3.3	9
21	Microscopic Picture of Electron-Phonon Interaction in Two-Dimensional Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9975-9982	6.4	8
20	Spatio-temporal dynamics in graphene. <i>Nanoscale</i> , 2019 , 11, 10017-10022	7.7	7
19	Brightening of spin- and momentum-dark excitons in transition metal dichalcogenides. <i>2D Materials</i> , 2021 , 8, 015013	5.9	6
18	Microscopic understanding of the photoconduction effect in graphene. <i>Physical Review B</i> , 2017 , 96,	3.3	4
17	Recombination channels in optically excited graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2456-2460	1.3	4
16	Molecule signatures in photoluminescence spectra of transition metal dichalcogenides. <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
15	Microscopic Understanding of Ultrafast Charge Transfer in van der Waals Heterostructures.. <i>Physical Review Letters</i> , 2021 , 127, 276401	7.4	4
14	Electrically pumped graphene-based Landau-level laser. <i>Physical Review Materials</i> , 2018 , 2,	3.2	3
13	Criteria for deterministic single-photon emission in two-dimensional atomic crystals. <i>Physical Review Materials</i> , 2020 , 4,	3.2	3
12	Dark exciton-exciton annihilation in monolayer WSe ₂ . <i>Physical Review B</i> , 2021 , 104,	3.3	3
11	Unconventional double-banded saturation of carrier occupation in optically excited graphene due to many-particle interactions. <i>Nature Communications</i> , 2017 , 8, 15042	17.4	2

10	Optical Response From Functionalized Atomically Thin Nanomaterials. <i>Annalen Der Physik</i> , 2017 , 529, 1700097	2.6	2
9	Phonon-Assisted Intervalley Scattering Determines Ultrafast Exciton Dynamics in MoSe ₂ Bilayers. <i>Physical Review Letters</i> , 2021 , 127, 157403	7.4	2
8	Phonon-assisted exciton dissociation in transition metal dichalcogenides. <i>Nanoscale</i> , 2021 , 13, 1884-1892.	7.7	2
7	Dark exciton anti-funneling in atomically thin semiconductors. <i>Nature Communications</i> , 2021 , 12, 7221	17.4	2
6	Valley-exchange coupling probed by angle-resolved photoluminescence. <i>Nanoscale Horizons</i> , 2021 ,	10.8	1
5	Disorder-induced broadening of excitonic resonances in transition metal dichalcogenides. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1
4	Proximity control of interlayer exciton-phonon hybridization in van der Waals heterostructures. <i>Nature Communications</i> , 2021 , 12, 1719	17.4	1
3	Black Phosphorus: The Art of Constructing Black Phosphorus Nanosheet Based Heterostructures: From 2D to 3D (Adv. Mater. 3/2021). <i>Advanced Materials</i> , 2021 , 33, 2170020	24	1
2	Microscopic Modeling of Pump-Probe Spectroscopy and Population Inversion in Transition Metal Dichalcogenides. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000223	1.3	0
1	Microscopic View on the Ultrafast Carrier Dynamics in Graphene 2017 , 135-182		