

# Hui Zhao

## List of Publications by Citations

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140  
papers

6,468  
citations

41  
h-index

78  
g-index

153  
ext. papers

7,429  
ext. citations

6.5  
avg, IF

6.03  
L-index

#	Paper	IF	Citations
140	Tightly bound excitons in monolayer WSe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2014</b> , 113, 026803	7.4	762
139	Ultrafast charge separation and indirect exciton formation in a MoS <sub>2</sub> -MoSe <sub>2</sub> van der Waals heterostructure. <i>ACS Nano</i> , <b>2014</b> , 8, 12717-24	16.7	472
138	Second harmonic microscopy of monolayer MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	423
137	2D materials advances: from large scale synthesis and controlled heterostructures to improved characterization techniques, defects and applications. <i>2D Materials</i> , <b>2016</b> , 3, 042001	5.9	297
136	Exciton-exciton annihilation in MoSe <sub>2</sub> monolayers. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	246
135	Third harmonic generation in graphene and few-layer graphite films. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	202
134	Ultrafast and spatially resolved studies of charge carriers in atomically thin molybdenum disulfide. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	184
133	Interlayer Coupling in Twisted WSe <sub>2</sub> /WS <sub>2</sub> Bilayer Heterostructures Revealed by Optical Spectroscopy. <i>ACS Nano</i> , <b>2016</b> , 10, 6612-22	16.7	181
132	Electron transfer and coupling in graphene-tungsten disulfide van der Waals heterostructures. <i>Nature Communications</i> , <b>2014</b> , 5, 5622	17.4	170
131	Transient absorption microscopy of monolayer and bulk WSe <sub>2</sub> . <i>ACS Nano</i> , <b>2014</b> , 8, 2970-6	16.7	159
130	Exceptional and Anisotropic Transport Properties of Photocarriers in Black Phosphorus. <i>ACS Nano</i> , <b>2015</b> , 9, 6436-42	16.7	139
129	Third-harmonic generation in ultrathin films of MoS <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 314-8	9.5	137
128	Coherence control of Hall charge and spin currents. <i>Physical Review Letters</i> , <b>2006</b> , 96, 246601	7.4	119
127	Type-I van der Waals heterostructure formed by MoS and ReS monolayers. <i>Nanoscale Horizons</i> , <b>2017</b> , 2, 31-36	10.8	118
126	Exciton formation in monolayer transition metal dichalcogenides. <i>Nanoscale</i> , <b>2016</b> , 8, 11681-8	7.7	111
125	Ultrafast Laser Spectroscopy of Two-Dimensional Materials Beyond Graphene. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604509	15.6	97
124	Tightly Bound Trions in Transition Metal Dichalcogenide Heterostructures. <i>ACS Nano</i> , <b>2015</b> , 9, 6459-64	16.7	86

123	Spatially resolved femtosecond pump-probe study of topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	85
122	Exciton diffusion in monolayer and bulk MoSe <sub>2</sub> . <i>Nanoscale</i> , <b>2014</b> , 6, 4915-9	7.7	79
121	Charge carrier dynamics in bulk MoS <sub>2</sub> crystal studied by transient absorption microscopy. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 133702	2.5	79
120	Transient Absorption Measurements on Anisotropic Monolayer ReS <sub>2</sub> . <i>Small</i> , <b>2015</b> , 11, 5565-71	11	71
119	Probing charge transfer excitons in a MoSe <sub>2</sub> -WS <sub>2</sub> van der Waals heterostructure. <i>Nanoscale</i> , <b>2015</b> , 7, 17523-8	7.7	70
118	Charge Transfer Exciton and Spin Flipping at Organic-Transition-Metal Dichalcogenide Interfaces. <i>ACS Nano</i> , <b>2017</b> , 11, 10184-10192	16.7	68
117	Synthesis and optoelectronic properties of two-dimensional FeS <sub>2</sub> nanoplates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 1174-7	9.5	68
116	Hot carrier diffusion in graphene. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	63
115	Suppression of Defects and Deep Levels Using Isoelectronic Tungsten Substitution in Monolayer MoSe <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1603850	15.6	62
114	Ambipolar diffusion of photoexcited carriers in bulk GaAs. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 262119	3.4	62
113	Highly Efficient and Anomalous Charge Transfer in van der Waals Trilayer Semiconductors. <i>Nano Letters</i> , <b>2017</b> , 17, 1623-1628	11.5	59
112	Energy-dependent Huang-Rhys factor of free excitons. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	57
111	Deep Surface Trap Filling by Photoinduced Carriers and Interparticle Electron Transport Observed in TiO <sub>2</sub> Nanocrystalline Film with Time-Resolved Visible and Mid-IR Transient Spectroscopies. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3762-3769	3.8	55
110	Valley and spin dynamics in MoSe <sub>2</sub> two-dimensional crystals. <i>Nanoscale</i> , <b>2014</b> , 6, 12690-5	7.7	54
109	Spatiotemporal dynamics of excitons in monolayer and bulk WS <sub>2</sub> . <i>Nanoscale</i> , <b>2015</b> , 7, 9526-31	7.7	53
108	Femtosecond pump-probe studies of reduced graphene oxide thin films. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 173106	3.4	53
107	The photo- and electro-luminescence properties of ZnO:Zn thin film. <i>Displays</i> , <b>2000</b> , 21, 147-149	3.4	51
106	Strong and anisotropic third-harmonic generation in monolayer and multilayer ReS <sub>2</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	47

105	Injection of ballistic pure spin currents in semiconductors by a single-color linearly polarized beam. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	45
104	Spatially resolved pump-probe study of single-layer graphene produced by chemical vapor deposition [Invited]. <i>Optical Materials Express</i> , <b>2012</b> , 2, 708	2.6	44
103	The effects of pyridine derivative additives on interface processes at nanocrystalline TiO <sub>2</sub> thin film in dye-sensitized solar cells. <i>Surface and Interface Analysis</i> , <b>2007</b> , 39, 809-816	1.5	44
102	Solid immersion lens-enhanced nano-photoluminescence: Principle and applications. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 6265-6272	2.5	44
101	Observation of second-harmonic generation induced by pure spin currents. <i>Nature Physics</i> , <b>2010</b> , 6, 875-878	3.8	43
100	Self-assembly of CuS nanoflakes into flower-like microspheres: Synthesis and characterization. <i>Journal of Physics and Chemistry of Solids</i> , <b>2009</b> , 70, 422-427	3.9	42
99	Observation of intrinsic inverse spin Hall effect. <i>Physical Review Letters</i> , <b>2011</b> , 106, 107205	7.4	38
98	Ambipolar spin diffusion and Dyakonov-Perel spin relaxation in GaAs quantum wells. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	37
97	Coherence length of excitons in a semiconductor quantum well. <i>Physical Review Letters</i> , <b>2002</b> , 89, 097401	1.4	37
96	Separating electrons and holes by monolayer increments in van der Waals heterostructures. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	37
95	Effect of the Interfacial Energy Landscape on Photoinduced Charge Generation at the ZnPc/MoS Interface. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11328-11336	16.4	36
94	Hot exciton transport in ZnSe quantum wells. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1391-1393	3.4	36
93	Ultrafast Interlayer Electron Transfer in Incommensurate Transition Metal Dichalcogenide Homobilayers. <i>Nano Letters</i> , <b>2017</b> , 17, 6661-6666	11.5	35
92	Spatiotemporal dynamics of quantum-well excitons. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	35
91	Optical injection and detection of ballistic pure spin currents in Ge. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 092107	1.7	34
90	Ionic-passivated FeS <sub>2</sub> photocapacitors for energy conversion and storage. <i>Chemical Communications</i> , <b>2013</b> , 49, 9260-2	5.8	33
89	Ultrafast charge transfer between MoTe <sub>2</sub> and MoS <sub>2</sub> monolayers. <i>2D Materials</i> , <b>2017</b> , 4, 015033	5.9	32
88	Isotope-Engineering the Thermal Conductivity of Two-Dimensional MoS. <i>ACS Nano</i> , <b>2019</b> , 13, 2481-2489	16.7	32

87	Second-harmonic generation induced by electric currents in GaAs. <i>Physical Review Letters</i> , <b>2012</b> , 108, 077403	7.4	29
86	Effect of quantum confinement on exciton-phonon interactions. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	28
85	Exciton diffusion in semiconducting single-walled carbon nanotubes studied by transient absorption microscopy. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	27
84	Temperature dependence of ambipolar diffusion in silicon on insulator. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 112104	3.4	27
83	Time-Resolved Measurements of Photocarrier Dynamics in TiS <sub>3</sub> Nanoribbons. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18334-8	9.5	24
82	Coherent Control of Nanoscale Ballistic Currents in Transition Metal Dichalcogenide ReS <sub>2</sub> . <i>ACS Nano</i> , <b>2015</b> , 9, 3935-41	16.7	22
81	Dynamics of charge currents ballistically injected in GaAs by quantum interference. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 053510	2.5	22
80	Temporally and spatially resolved ballistic pure spin transport. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	21
79	Photocarrier dynamics in monolayer phosphorene and bulk black phosphorus. <i>Nanoscale</i> , <b>2018</b> , 10, 11307-11312	7.1	21
78	Understanding charge transfer in carbon nanotube-fullerene bulk heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 7428-35	9.5	20
77	Energy relaxation during hot-exciton transport in quantum wells: Direct observation by spatially resolved phonon-sideband spectroscopy. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2794-2796	3.4	20
76	A type-I van der Waals heterobilayer of WSe/MoTe. <i>Nanotechnology</i> , <b>2018</b> , 29, 335203	3.4	20
75	Efficient hole transfer from monolayer WS to ultrathin amorphous black phosphorus. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 236-242	10.8	19
74	Probing effect of electric field on photocarrier transfer in graphene-WS <sub>2</sub> van der Waals heterostructures. <i>Optics Express</i> , <b>2017</b> , 25, 1949-1957	3.3	19
73	Effect of Dielectric Environment on Excitonic Dynamics in Monolayer WS <sub>2</sub> . <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901307	4.6	17
72	Amorphous two-dimensional black phosphorus with exceptional photocarrier transport properties. <i>2D Materials</i> , <b>2017</b> , 4, 025063	5.9	16
71	Probing excitons in transition metal dichalcogenides by Drude-like exciton intraband absorption. <i>Nanoscale</i> , <b>2018</b> , 10, 9538-9546	7.7	16
70	Excitonic Dynamics in Janus MoSSe and WSSe Monolayers. <i>Nano Letters</i> , <b>2021</b> , 21, 931-937	11.5	16

69	Correlation in Vertically Stacked CdSe Based Quantum Islands. <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 229, 519-522	1.3	15
68	Controlling exciton transport in monolayer MoSe <sub>2</sub> by dielectric screening. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 139-143	10.8	15
67	Photocarrier Transfer across Monolayer MoS-MoSe Lateral Heterojunctions. <i>ACS Nano</i> , <b>2018</b> , 12, 7086-7092	10.7	14
66	Spectroscopic Evidence for the Exciton Percolation Threshold in Low-Dimensional ZnCdSe Solutions with Nano-Islands. <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 229, 509-512	1.3	14
65	Ultrafast Optical Modulation of Harmonic Generation in Two-Dimensional Materials. <i>Nano Letters</i> , <b>2020</b> , 20, 8053-8058	11.5	14
64	Efficient Energy Transfer in InSe-MoSe van der Waals Heterostructures. <i>ACS Omega</i> , <b>2018</b> , 3, 11930-11936	10.9	14
63	Temporally Resolving Synchronous Degenerate and Nondegenerate Two-Photon Absorption in 2D Semiconducting Monolayers. <i>Laser and Photonics Reviews</i> , <b>2019</b> , 13, 1800225	8.3	13
62	Effects of rhenium dopants on photocarrier dynamics and optical properties of monolayer, few-layer, and bulk MoS. <i>Nanoscale</i> , <b>2017</b> , 9, 19360-19366	7.7	11
61	All-optical generation and detection of subpicosecond ac spin-current pulses in GaAs. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	11
60	Ultrafast charge transfer in a type-II MoS-ReSe van der Waals heterostructure. <i>Optics Express</i> , <b>2019</b> , 27, 17851-17858	3.3	11
59	Interlayer charge transfer in ReS <sub>2</sub> /WS <sub>2</sub> van der Waals heterostructures. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	10
58	Toward attosecond control of electron dynamics in two-dimensional materials. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 043101	3.4	10
57	Ultrafast transient absorption measurements of photocarrier dynamics in monolayer and bulk ReSe. <i>Optics Express</i> , <b>2018</b> , 26, 21501-21509	3.3	10
56	Optical studies of ballistic currents in semiconductors [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, A43	1.7	10
55	Optical Properties and Photocarrier Dynamics of Bi <sub>2</sub> O <sub>2</sub> Se Monolayer and Nanoplates. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901567	8.1	10
54	Nonlinear optical effect of interlayer charge transfer in a van der Waals heterostructure. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 263103	3.4	10
53	Ultrafast breathinglike oscillation in the exciton density of ZnSe quantum wells. <i>Physical Review Letters</i> , <b>2005</b> , 94, 137402	7.4	9
52	All-optical technique to correlate defect structure and carrier transport in transferred graphene films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 7176-80	9.5	8

51	Two-probe study of hot carriers in reduced graphene oxide. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 084322.	5	8
50	Layer-Coupled States Facilitate Ultrafast Charge Transfer in a Transition Metal Dichalcogenide Trilayer Heterostructure. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5970-5978	6.4	8
49	Injection and detection of ballistic electrical currents in silicon. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 212106	3.4	7
48	Determination of SiO <sub>2</sub> colloid core size by SAXS. <i>Journal of Materials Science Letters</i> , <b>2003</b> , 22, 33-35		7
47	Understanding Spatiotemporal Photocarrier Dynamics in Monolayer and Bulk MoTe <sub>2</sub> for Optimized Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 459-464	5.6	7
46	Unipolar optical doping and extended photocarrier lifetime in graphene by band-alignment engineering. <i>Nano Futures</i> , <b>2018</b> , 2, 035003	3.6	7
45	Transient absorption of transition metal dichalcogenide monolayers studied by a photodope-pump-probe technique. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	6
44	Transient Absorption Microscopy of Layered Crystal AsSbS. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 1047-1052	2.8	6
43	Electron dynamics in MoS-graphite heterostructures. <i>Nanoscale</i> , <b>2017</b> , 9, 14533-14539	7.7	6
42	All-optical injection and detection of ballistic charge currents in germanium. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 083111	2.5	6
41	Quasi-ballistic transport of excitons in quantum wells. <i>Journal of Luminescence</i> , <b>2005</b> , 112, 136-141	3.8	6
40	Power dependence of pure spin current injection by quantum interference. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	5
39	Coherence length and time of excitons in ZnSe quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 462-465		5
38	Direct measurement of acoustic-phonon scattering of hot quantum-well excitons. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	5
37	Photocarrier dynamics in transition metal dichalcogenide alloy Mo <sub>0.5</sub> W <sub>0.5</sub> S <sub>2</sub> . <i>Optics Express</i> , <b>2015</b> , 23, 33370-7	3.3	4
36	Observation of charge transfer in mixed-dimensional heterostructures formed by transition metal dichalcogenide monolayers and PbS quantum dots. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	4
35	Non-classical excitonic transport in quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2003</b> , 238, 529-532	1.3	3
34	Influence of spatial charges on transport properties of thin film electroluminescent displays. <i>Displays</i> , <b>2000</b> , 21, 143-146	3.4	3

33	Ultrafast Interlayer Charge Transfer between Bilayer PtSe and Monolayer WS. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 57822-57830	9.5	3
32	Time-Resolved Observation of Hole Tunneling in van der Waals Multilayer Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12425-12431	9.5	3
31	Thickness-Dependent Interlayer Charge Transfer in MoSe/MoS Heterostructures Studied by Femtosecond Transient Absorption Measurements. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 6489-6495	9.5	3
30	Theoretical Insights into Ultrafast Dynamics in Quantum Materials. <i>Ultrafast Science</i> , <b>2022</b> , 2022, 1-16		3
29	Transition Metal Dichalcogenides: Suppression of Defects and Deep Levels Using Isoelectronic Tungsten Substitution in Monolayer MoSe <sub>2</sub> (Adv. Funct. Mater. 19/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27,	15.6	2
28	Dynamics of charge-transfer excitons in a transition metal dichalcogenide heterostructure. <i>Nanoscale</i> , <b>2020</b> , 12, 8485-8492	7.7	2
27	Upconversion photoluminescence by charge transfer in a van der Waals trilayer. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 173102	3.4	2
26	Solid-immersion-lens-enhanced nanophotoluminescence for spectroscopy of quantum dot systems. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 1237-1241		2
25	Electron Acceleration Process in ZnS-Type Thin Film Electroluminescence Devices. <i>Chinese Physics Letters</i> , <b>1999</b> , 16, 217-219	1.8	2
24	Transient acceleration process of electrons in ZnS-type thin film electroluminescence devices. <i>Journal of Physics Condensed Matter</i> , <b>1999</b> , 11, 2145-2151	1.8	2
23	Influence of charged centres on transport properties of thin film electroluminescent devices. <i>Semiconductor Science and Technology</i> , <b>1999</b> , 14, 1098-1101	1.8	2
22	Transient transport of electrons in thin film electroluminescent devices. <i>Science in China Series D: Earth Sciences</i> , <b>1999</b> , 42, 282-287		2
21	Charge Transfer Properties of Heterostructures Formed by Bi O Se and Transition Metal Dichalcogenide Monolayers. <i>Small</i> , <b>2021</b> , e2106078	11	2
20	Ultrafast hole transfer from monolayer ReS <sub>2</sub> to thin-film F8ZnPc. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 153104	3.4	2
19	Nonlinear Optical Experiments on Graphene <b>2017</b> , 221-240		1
18	Spatiotemporally Resolved Optical Measurements on Photocarrier Dynamics in Copper Monosulfide. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 14459-14464	3.8	1
17	Feature issue introduction: two-dimensional materials for photonics and optoelectronics. <i>Optical Materials Express</i> , <b>2016</b> , 6, 2458	2.6	1
16	Quantum interference and control of the dynamic Franz-Keldysh effect: Generation and detection of terahertz space-charge fields. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 251110	3.4	1



15	Electrically induced charge-density waves in a two-dimensional electron liquid: Effects of negative electronic compressibility. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	1
14	Spatial breathing of the exciton distribution in ZnSe quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 579-582	1.3	1
13	Non-Diffusive In-Plane Transport of Excitons in ZnSe Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 229, 577-580	1.3	1
12	Spatial Distribution of Electron Energy in Thin Film Electroluminescent Displays. <i>Physica Scripta</i> , <b>2001</b> , 63, 500-503	2.6	1
11	Tracking photocarrier-enhanced electron-phonon coupling in nonequilibrium. <i>Npj Quantum Materials</i> , <b>2022</b> , 7,	5	1
10	Hot Excitons in ZnSe Quantum Wells. <i>Springer Series in Solid-state Sciences</i> , <b>2004</b> , 19-45	0.4	1
9	Type-II WS <sub>2</sub> /ReSe <sub>2</sub> heterostructure and its charge-transfer properties. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 1417-1423	2.5	1
8	Photocarrier Dynamics in TlGaS <sub>2</sub> Nanoflakes and van der Waals Heterostructures with Hexagonal Boron Nitride and WS <sub>2</sub> Nanoflakes: Implications for Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 8702-8707	5.6	1
7	All-optical control of charge transfer and interlayer excitons in transition metal dichalcogenide heterostructures. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
6	Photoluminescence enhancement at a high generation rate induced by exciton localization. <i>Optics Letters</i> , <b>2021</b> , 46, 2774-2777	3	1
5	Efficient interlayer electron transfer in a MoTe <sub>2</sub> /WS <sub>2</sub> /MoS <sub>2</sub> trilayer heterostructure. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 253106	3.4	1
4	Photocarrier Dynamics in MoTe Nanofilms with 2 and Distorted 1 Lattice Structures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 44703-44710	9.5	1
3	A Ferrotoroidic Candidate with Well-separated Spin Chains.. <i>Advanced Materials</i> , <b>2022</b> , e2106728	24	0
2	Ultrafast charge transfer and carrier dynamics in a WS <sub>2</sub> /MoSe <sub>2</sub> few-layer van der Waals heterostructure. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 5328-5335	7.1	0
1	Fast Exciton Diffusion in Monolayer PtSe <sub>2</sub> . <i>Laser and Photonics Reviews</i> , 2100594	8.3	0