Citation Report
List of articles citing

InSe monolayer: synthesis, structure and ultra-high second-harmonic generation

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2D Materials, 2018, 5, 025019.

#	Paper	IF	Citations
76	Hole-Doped 2D InSe for Spintronic Applications. *ACS Applied Nano Materials*, **2018**, 1, 6656-6665	5.6	23
75	Pulsed-laser deposition of InSe thin films for the detection of thickness-dependent bandgap modification. *Applied Physics Letters*, **2018**, 113, 253501	3.4	4
74	Raman Spectroscopy of Folded Tetralayer Graphenes Prepared by Atomic Force Microscope. *Journal of Physical Chemistry C*, **2018**, 122, 28362-28367	3.8	0
73	Phase-Engineered Growth of Ultrathin InSe Flakes by Chemical Vapor Deposition for High-Efficiency Second Harmonic Generation. *Chemistry - A European Journal*, **2018**, 24, 15678-15684	4.8	24
72	Synthesis of Large-Area InSe Monolayers by Chemical Vapor Deposition. *Small*, **2018**, 14, e1802351	11	48
71	Realization of Quantum Hall Effect in Chemically Synthesized InSe. *Advanced Functional Materials*, **2019**, 29, 1904032	15.6	16
70	Planar graphitic ZnS, buckling ZnS monolayers and rolled-up nanotubes as nonlinear optical materials: first-principles simulation.. *RSC Advances*, **2019**, 9, 25336-25344	3.7	3
69	Maximizing Thermoelectric Figures of Merit by Uniaxially Straining Indium Selenide. *Journal of Physical Chemistry C*, **2019**, 123, 25437-25447	3.8	6
68	Quantum-enhanced tunable spin-valley dependent excitonic second harmonic generation in molybdenum disulfide quantum dots. *Materials Research Express*, **2019**, 6, 126204	1.7	3
67	Magnetism and Optical Anisotropy in van der Waals Antiferromagnetic Insulator CrOCl. *ACS Nano*, **2019**, 13, 11353-11362	16.7	46
66	Room-temperature out-of-plane and in-plane ferroelectricity of two-dimensional □nSe nanoflakes. *Applied Physics Letters*, **2019**, 114, 252903	3.4	19
65	2DMatPedia, an open computational database of two-dimensional materials from top-down and bottom-up approaches. *Scientific Data*, **2019**, 6, 86	8.2	92
64	Nonlayered Two-Dimensional Defective Semiconductor □GaS toward Broadband Photodetection. *ACS Nano*, **2019**, 13, 6297-6307	16.7	48
63	Phase Identification and Strong Second Harmonic Generation in Pure □nSe and Its Alloys. *Nano Letters*, **2019**, 19, 2634-2640	11.5	50
62	Formation and Healing of Defects in Atomically Thin GaSe and InSe. *ACS Nano*, **2019**, 13, 5112-5123	16.7	23
61	Synthesis and emerging properties of 2D layered III□VI metal chalcogenides. *Applied Physics Reviews*, **2019**, 6, 041312	17.3	40
60	Broadband Nonlinear Optical Response of InSe Nanosheets for the Pulse Generation From 1 to 2 □m. *ACS Applied Materials & Interfaces*, **2019**, 11, 48281-48289	9.5	27

59	Controlling Defects in Continuous 2D GaS Films for High-Performance Wavelength-Tunable UV-Discriminating Photodetectors. *Advanced Materials*, **2020**, 32, e1906958	24	24
58	Edge-Epitaxial Growth of InSe Nanowires toward High-Performance Photodetectors. *Small*, **2020**, 16, e1905902	11	14
57	Thickness Identification of Thin InSe by Optical Microscopy Methods. *Advanced Photonics Research*, **2020**, 1, 2000025	1.9	6
56	InSe single crystals grown by a horizontal gradient freeze method. *CrystEngComm*, **2020**, 22, 7864-7869	3.3	3
55	Structure-Property Relationships of 2D Ga/In Chalcogenides. *Nanomaterials*, **2020**, 10,	5.4	0
54	Temperature-Dependent Trap-Assisted Ultrafast Carrier Dynamics in Amorphous and Crystalline In2Se3 Thin Films. *Physical Review Applied*, **2020**, 14,	4.3	3
53	The optical properties of few-layer InSe. *Journal of Applied Physics*, **2020**, 128, 060901	2.5	10
52	Large-area optoelectronic-grade InSe thin films via controlled phase evolution. *Applied Physics Reviews*, **2020**, 7, 041402	17.3	3
51	Effects of temperature and intrinsic structural defects on mechanical properties and thermal conductivities of InSe monolayers. *Scientific Reports*, **2020**, 10, 15082	4.9	9
50	Two-dimensional layered Janus-In2SeTe/C2N van der Waals heterostructures for photocatalysis and photovoltaics: first-principles calculations. *New Journal of Chemistry*, **2020**, 44, 16092-16100	3.6	6
49	Surface-Modified Ultrathin InSe Nanosheets with Enhanced Stability and Photoluminescence for High-Performance Optoelectronics. *ACS Nano*, **2020**, 14, 11373-11382	16.7	18
48	Synthesis and Applications of Wide Bandgap 2D Layered Semiconductors Reaching the Green and Blue Wavelengths. *ACS Applied Electronic Materials*, **2020**, 2, 1777-1814	4	18
47	New Polymorphs of 2D Indium Selenide with Enhanced Electronic Properties. *Advanced Functional Materials*, **2020**, 30, 2001920	15.6	19
46	The role of hybrid dielectric interfaces in improving the performance of multilayer InSe transistors. *Journal of Materials Chemistry C*, **2020**, 8, 6701-6709	7.1	3
45	Janus XM-GaS (M=Si, Ge, Sn; X=N, P) monolayers: Multifunctional properties for photocatalysis, piezoelectricity and second harmonic generation. *Physica B: Condensed Matter*, **2020**, 594, 412366	2.8	7
44	Exciton-driven giant nonlinear overtone signals from buckled hexagonal monolayer GaAs. *Physical Review B*, **2020**, 101,	3.3	1
43	Recent progress in contact, mobility, and encapsulation engineering of InSe and GaSe. *Informa Materiy*, **2021**, 3, 662-693	23.1	15
42	Nanomechanics of antimonene allotropes under tensile loading. *Physical Chemistry Chemical Physics* , **2021**, 23, 6241-6251	3.6	2

41	Enhancing SiN waveguide optical nonlinearity via hybrid GaS integration. *Journal of Optics (United Kingdom)*, **2021**, 23, 025802	1.7	2
40	Polymorphism in Post-Dichalcogenide Two-Dimensional Materials. *Chemical Reviews*, **2021**, 121, 2713-2775	68.1	20
39	Lateral growth of indium(III) selenide nanoribbons and their optoelectronic performance for weak signal detection. *Applied Surface Science*, **2021**, 546, 149166	6.7	2
38	Giant Linear and Nonlinear Excitonic Responses in an Atomically Thin Indirect Semiconductor Nitrogen Phosphide. *Journal of Physical Chemistry C*, **2021**, 125, 12738-12757	3.8	3
37	Investigation Of Some Optical And Electrical Properties Of InSe Thin Film, a Window Layer for Photovoltaic Cell Growth on Glass/GaSe Substrate by M-CBD Method. *Karadeniz Fen Bilimleri Dergisi* , **2021**, 11, 297-306	0.2	1
36	Recent progress of silicon integrated light emitters and photodetectors for optical communication based on two-dimensional materials. *Optical Materials Express*, **2021**, 11, 3298	2.6	2
35	Scale-up synthesis of monolayer layered double hydroxide nanosheets via separate nucleation and aging steps method for efficient CO2 photoreduction. *Chemical Engineering Journal*, **2021**, 419, 129390	14.7	9
34	Observation of nonvolatile resistive switching behaviors in 2D layered InSe nanosheets through controllable oxidation. *Applied Physics Letters*, **2021**, 119, 133103	3.4	0
33	InSe based Janus VI-III-IV-V monolayers as water-splitting photocatalysts: Role of vacuum level difference. *International Journal of Hydrogen Energy*, **2021**, 46, 35271-35279	6.7	1
32	Second harmonic generation in 2D layered materials. *2D Materials*, **2020**, 7, 042002	5.9	16
31	Second-harmonic generation in single-layer monochalcogenides: A response from first-principles real-time simulations. *Physical Review Materials*, **2019**, 3,	3.2	11
30	Apparent Colors of 2D Materials. *Advanced Photonics Research*, 2100221	1.9	2
29	Atomistic elucidation of mechanical properties and fracture phenomenon of defective indium selenide monolayer. *Computational Condensed Matter*, **2022**, 30, e00637	1.7	0
28	Janus GaSeTe/InSSe heterostructures: tunable electronic, optical, and photocatalytic properties.. *Physical Chemistry Chemical Physics*, **2022**,	3.6	1
27	Stability and Bandgap Engineering of InGaSe Monolayer.. *Nanomaterials*, **2022**, 12,	5.4	
26	Harmonic Generation in Low-Dimensional Materials. *Advanced Optical Materials*, 2101860	8.1	5
25	Second-harmonic and linear spectroscopy of In2Se3. *Physical Review Materials*, **2022**, 6,	3.2	
24	Layer Number-Dependent Raman Spectra of InSe.. *Journal of Physical Chemistry Letters*, **2022**, 3691-3697	7.4	1

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23	Nanoscale Optical Imaging of 2D Semiconductor Stacking Orders by Exciton-Enhanced Second Harmonic Generation. *Advanced Optical Materials*, 2200085	8.1	1
22	Strong In-Plane Optical and Electrical Anisotropies of Multilayered □nSe for High-Responsivity Polarization-Sensitive Photodetectors.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	2
21	Bifunctional Catalytic Activity of 2D Boron Monochalcogenides BX (X = S, Se, Te). *Materials Today Energy*, **2022**, 101026	7	1
20	Dramatically Enhanced Second Harmonic Generation in Janus Group-III Chalcogenide Monolayers. *Advanced Optical Materials*, 2200076	8.1	1
19	Emergence of superconductivity in an InSe monolayer: Roles of deposited metal and biaxial strain. *Journal of Physics and Chemistry of Solids*, **2022**, 110823	3.9	0
18	Properties, Synthesis, and Device Applications of 2D Layered InSe. *Advanced Materials Technologies*, 2200321	6.8	1
17	Compelling Evidence for the β□Phase InSe Crystal by Oblique Incident Second Harmonic Generation. *Advanced Optical Materials*, 2201183	8.1	1
16	Thermo-mechanical response of pristine and defective 2D hexagonal boron oxide. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2022**, 283, 115758	3.1	
15	Nonlinear Optical Activities in Two-Dimensional Gallium Sulfide: A Comprehensive Study. *ACS Nano*,	16.7	1
14	High solar-to-hydrogen efficiency photocatalytic hydrogen evolution reaction with the HfSe2/InSe heterostructure. **2022**, 547, 232008		5
13	Recent progress of indium-based photocatalysts: Classification, regulation and diversified applications. **2022**, 473, 214819		1
12	Comparative study of Janus B2XY (X, Y = S, Se, Te) and F-BNBN-H monolayers for water splitting: revealing the positive and negative roles of the intrinsic dipole. **2022**, 24, 20980-20987		0
11	Quantum Chemical Simulation of Double-Walled Nanotubes Based on Gallium and Indium Chalcogenides.		0
10	Single-wall pristine and Janus nanotubes based on post-transition metal chalcogenides. First-principles study. **2023**, 147, 115611		0
9	Strong in-plane optical anisotropy in 2D van der Waals antiferromagnet VOCl.		0
8	Carrier and Phonon transport in 2D InSe and its Janus structures.		0
7	SYNTHESIS AND INVESTIGATION OF STRUCTURAL, SURFACE MORPHOLOGICAL AND OPTICAL PROPERTIES OF InSe/PMItz HYBRID HETEROJUNCTION.		0
6	Van der Waals Heteroepitaxy of GaSe and InSe, Quantum Wells, and Superlattices. 2211871		0

5	Quantum transport of sub-5 nm InSe and In2SSe monolayers and their heterostructure transistors. **2023**, 15, 3496-3503	0
4	Thickness Determination of Ultrathin 2D Materials Empowered by Machine Learning Algorithms. **2023**, 17,	0
3	Nanosized indium selenide saturable absorber for multiple solitons operation in Er3+-doped fiber laser. **2023**, 31, 10176	0
2	Uniaxial Strain Dependence on Angle-Resolved Optical Second Harmonic Generation from a Few Layers of Indium Selenide. **2023**, 13, 750	0
1	Growth and applications of two-dimensional single crystals. **2023**, 10, 032001	0