

Quasi-Two-Dimensional Se-Terminated Bismuth Oxide
(Bi₂O₂Se)

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Lithium nitrate-assisted hydrothermal synthesis of ultrathin Bi ₂ O ₂ Se nanosheets and their photoelectrochemical performance. Journal of Materials Chemistry C, 2020, 8, 14711-14717.	2.7	11
2	Unveiling interface interaction assisted broadband photoresponse of epitaxial 2D Bi ₂ O ₂ Se on perovskite oxides. Journal of Materials Chemistry C, 2020, 8, 13226-13234.	2.7	13
3	Progress Report on Property, Preparation, and Application of Bi ₂ O ₂ Se. Advanced Functional Materials, 2020, 30, 2004480.	7.8	72
4	Mobility-Fluctuation-Controlled Linear Positive Magnetoresistance in 2D Semiconductor Bi ₂ O ₂ Se Nanoplates. ACS Nano, 2020, 14, 11319-11326.	7.3	22
5	Growth and Interlayer Engineering of 2D Layered Semiconductors for Future Electronics. ACS Nano, 2020, 14, 16266-16300.	7.3	30
6	Bidirectional All-Optical Synapses Based on a 2D Bi ₂ O ₂ Se/Graphene Hybrid Structure for Multifunctional Optoelectronics. Advanced Functional Materials, 2020, 30, 2001598.	7.8	123
7	Ultrathin Bi ₂ O ₂ S nanosheet near-infrared photodetectors. Nanoscale, 2020, 12, 16285-16291.	2.8	40
8	Self-Driven WSe ₂ /Bi ₂ O ₂ Se Van der Waals Heterostructure Photodetectors with High Light On/Off Ratio and Fast Response. Advanced Functional Materials, 2021, 31, 2008351.	7.8	129
9	Epitaxial growth of large-grain-size ferromagnetic monolayer CrI ₃ for valley Zeeman splitting enhancement. Nanoscale, 2021, 13, 2955-2962.	2.8	5
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13	Huge permittivity and premature metallicity in Bi ₂ O ₂ Se single crystals. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	7
14	Two-dimensional selenium and its composites for device applications. Nano Research, 2022, 15, 104-122.	5.8	26
15	Thickness- and strain-tunable electronic structures of two-dimensional Bi ₂ O ₂ Se. Computational Materials Science, 2021, 194, 110424.	1.4	10
16	Emerging two-dimensional bismuth oxychalcogenides for electronics and optoelectronics. Informa Materially, 2021, 3, 1251-1271.	8.5	51
17	Surface Diffusion and Epitaxial Self-Planarization for Wafer-Scale Single-Grain Metal Chalcogenide Thin Films. Advanced Materials, 2021, 33, e2102252.	11.1	13
18	2D Bi ₂ O ₂ Se: An Emerging Material Platform for the Next-Generation Electronic Industry. Accounts of Materials Research, 2021, 2, 842-853.	5.9	39

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19	Mechanics and strain engineering of bulk and monolayer Bi ₂ O ₂ Se. Journal of the Mechanics and Physics of Solids, 2021, 157, 104626.	2.3	6
20	Native O and Se Vacancy Defects in Bi ₂ O ₅ Se, Bi ₂ O ₉ Se ₃ , and Bi ₂ O ₁₀ Se ₃ Dielectrics for Nanoelectronics. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000540.	1.2	1
21	Understanding the interfacial charge transfer in the CVD grown Bi ₂ O ₂ Se/CsPbBr ₃ nanocrystal heterostructure and its exploitation in superior photodetection: experiment <i>vs.</i> theory. Nanoscale, 2021, 13, 14945-14959.	2.8	28
22	Deciphering the photocurrent polarity of Bi ₂ O ₂ Se heterojunction phototransistors to enhance detection performance. Journal of Materials Chemistry C, 0, , .	2.7	6
23	Van der Waals Epitaxy of Bi ₂ Te ₂ Se/Bi ₂ O ₂ Se Vertical Heterojunction for High Performance Photodetector. Small, 2022, 18, e2105211.	5.2	21
24	Recent advances in the fabrication of 2D metal oxides. IScience, 2022, 25, 103598.	1.9	45
25	Detection and tuning of spin-orbit interactions on inclined-grown Bi ₂ O ₂ Se nanoplates. Applied Physics Letters, 2022, 120, .	1.5	7
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28	Defect Engineering in Thickness-Controlled Bi ₂ O ₂ Se-Based Transistors by Argon Plasma Treatment. ACS Applied Materials & Interfaces, 2022, 14, 15370-15380.	4.0	7
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30	Recent developments on Bi-based oxychalcogenide materials with thermoelectric and optoelectronic applications: an overview. Materials Today Chemistry, 2022, 26, 101149.	1.7	2
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33	Synthesis and improved photoelectrochemical performances of Bi ₉ O ₇ .5S ₆ /CdS heterojunction. Journal of Alloys and Compounds, 2023, 930, 167415.	2.8	5
34	Green Triplet Self-Trapped Exciton Emission in Layered Rb ₃ Cd ₂ Cl ₇ :Sb ³⁺ Perovskite: Comparison with RbCdCl ₃ :Sb ³⁺ . Journal of Physical Chemistry Letters, 2022, 13, 8436-8446.	2.1	19
35	A single-crystalline native dielectric for two-dimensional semiconductors with an equivalent oxide thickness below 0.5%nm. Nature Electronics, 2022, 5, 643-649.	13.1	49
36	Challenges for Nanoscale CMOS Logic Based on Two-Dimensional Materials. Nanomaterials, 2022, 12, 3548.	1.9	13

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37	Effect of surface Se concentration on stability and electronic structure of monolayer Bi ₂ O ₂ Se. Applied Surface Science, 2023, 611, 155528.	3.1	4
38	New materials and designs for 2D-based infrared photodetectors. Nano Research, 2023, 16, 3074-3103.	5.8	12
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41	Tunable lattice dynamics and dielectric functions of two-dimensional Bi ₂ O ₂ Se: striking layer and temperature dependent effects. Nanoscale, 2023, 15, 2323-2331.	2.8	4
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43	Effect of Hydrostatic Pressure on Lone Pair Activity and Phonon Transport in Bi ₂ O ₂ S. ACS Applied Energy Materials, 2023, 6, 2401-2411.	2.5	4
44	Computational Analysis of Metal Contact on Bi ₂ O ₂ Se with Se Surface Vacancies. Advanced Electronic Materials, 2023, 9, .	2.6	1
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