Nazim Mamedov

List of Publications by Year in descending order

65 papers	1,275 citations	687363 13 h-index	377865 34 g-index
67 all docs	67 docs citations	67 times ranked	1411 citing authors

#	Article	IF	Citations
1	Prediction and observation of an antiferromagnetic topological insulator. Nature, 2019, 576, 416-422.	27.8	701
2	Nature of the Dirac gap modulation and surface magnetic interaction in axion antiferromagnetic topological insulator $${hbox {MnBi}}_2 {hbox {Te}}_4$$. Scientific Reports, 2020, 10, 13226.	3.3	62
3	Native point defects and their implications for the Dirac point gap at MnBi2Te4(0001). Npj Quantum Materials, 2022, 7, .	5.2	53
4	Refractive indices of layered semiconductor ferroelectrics TlInS2, TlGaS2, and TlGaSe2 from ellipsometric measurements limited to only layer-plane surfaces. Journal of Applied Physics, 2007, 102, .	2.5	38
5	Polarized Transmission Intensity Studies of Off-Zone-Center Incommensurate Semiconductors-Ferroelectrics TlMeX2. Japanese Journal of Applied Physics, 2002, 41, 7254-7259.	1.5	27
6	Band structure of TlGaSe2. Physica Status Solidi (B): Basic Research, 1983, 119, 41-48.	1.5	25
7	Effect of High Pressure on the Electrical Conductivity of TlInX₂ (X = Se, Te) Layered Semiconductors. Physica Status Solidi (B): Basic Research, 1993, 178, 403-408.	1.5	22
8	Nearâ€Bandâ€Edge Optical Properties of TlGaS_{2x}Se_{2(1â^'x}) Mixed Crystals. Physica Status Solidi (B): Basic Research, 1980, 102, K19.	1.5	21
9	Band structure of TlGaSe₂ ternary layered crystals. Physica Status Solidi (B): Basic Research, 1986, 133, 171-177.	1.5	19
10	Neutron diffraction study of the crystal structure of TlInSe₂ at high pressure. International Journal of Modern Physics B, 2019, 33, 1950149.	2.0	19
11	Band structure and vacancy formation in Î²â€Ag₂S: Abâ€initio study. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 672-675.	0.8	17
12	Temperature-dependent and pump-probe ellipsometric studies of TlInSe2. Thin Solid Films, 2008, 517, 1434-1438.	1.8	16
13	The nature of energy bands of AIIIBVI layered crystals near the absorption edge. Physica Status Solidi A, 1979, 53, 137-142.	1.7	15
14	Infrared study of the multiband low-energy excitations of the topological antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MnBi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2021, 103, .	3.2	13
15	Optical properties of surface grated Si-based multilayer structure. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, .	1.2	12
16	Excitons in TlGaSe₂. Physica Status Solidi (B): Basic Research, 1981, 103, K61.	1.5	11
17	Dielectric properties, conduction mechanism, and possibility of nanodomain state with quantum dot formation in impurity-doped gamma-irradiated incommensurate TlInS2. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2845-2851.	1.8	11
18	Phase transition and Ramanâ€active modes in TlInS₂. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1132-1135.	0.8	11

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19	Pressure Induced Semiconductorâ€Metal Transition in Tlâ€Se Layered Semiconductor. Physica Status Solidi (B): Basic Research, 1991, 167, K97.	1.5	10
20	Ab-initio study of ferromagnetism in Mn-doped ZnSnAs2. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 668-671.	0.8	10
21	Linearized Augmented Plane Wave Band Structure Calculations and Dielectric Function of Layered TlGaSe₂. Japanese Journal of Applied Physics, 2008, 47, 8182.	1.5	9
22	Temperatureâ€dependent hard Xâ€ray photoemission spectra of ternary Tl compounds with high Seebeck coefficient. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 993-996.	0.8	9
23	Structural studies on TlInSe thermoelectric material by Xâ€ray fluorescence holography, XAFS, and Xâ€ray diffraction. Physica Status Solidi (B): Basic Research, 2015, 252, 1225-1229.	1.5	9
24	Twoâ€Phonon Absorption Spectra and Phase Transition in TlGaSe₂. Physica Status Solidi (B): Basic Research, 1988, 145, K103.	1.5	7
25	Three Dimensional Atomic Image of TlInSe2 by X-ray Fluorescence Holography. E-Journal of Surface Science and Nanotechnology, 2011, 9, 273-276.	0.4	6
26	Temperature behavior of dielectric function spectra and optical transitions in TlGaS₂. Physica Status Solidi (B): Basic Research, 2015, 252, 1254-1257.	1.5	6
27	Anharmonicity of Lattice Vibrations in Bi2Se3 Single Crystals. Semiconductors, 2019, 53, 291-295.	0.5	6
28	Probe-dependent Dirac-point gap in the gadolinium-doped thallium-based topological insulator TlBi0.9Gd0.1Se2. Physical Review B, 2020, 102, .	3.2	6
29	Photoluminescence of ternary layered crystals TlGaS2. Physica Status Solidi A, 1984, 82, K75-K77.	1.7	5
30	Optical properties of CuAlS2with small indium content. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1089-1092.	0.8	5
31	Raman scattering in the Bi2(Te0.9Se0.1)3 solid solution films. Semiconductors, 2012, 46, 1140-1144.	0.5	5
32	IR ellipsometry of silk fibroin films on Al nanoislands. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 628-630.	0.8	5
33	Temperature dependence of low-frequency optical phonons in TlInS2. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 826-829.	0.8	5
34	Anisotropic optical constants and inter-band optical transitions in layered semiconductor TlGaSe2. Applied Surface Science, 2017, 421, 788-793.	6.1	5
35	Optical Properties of Polyethylene Filled with Bi2Te3 Nanocrystallites. Semiconductors, 2019, 53, 224-228.	0.5	5
36	Structure and optical properties of CdS:O thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1098-1101.	0.8	4

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37	Hard Xâ€ray photoemission study of the covalentâ€chain antiferromagnets TlFeS₂ and TlFeSe₂. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 989-992.	0.8	4
38	Band gap exciton in ferroelectric TlInS₂: Dimensionality and screening. Physica Status Solidi (B): Basic Research, 2015, 252, 1248-1253.	1.5	4
39	Photoinduced Reversible Local Deformation of the Surface Relief in Bulk Single Crystals of TlInSe2, TlGaTe2, and TlSe. Technical Physics Letters, 2018, 44, 643-645.	0.7	4
40	Temperature dependence of lowâ€frequency polarized Raman scattering spectra in TlInS ₂. Physica Status Solidi C: Current Topics in Solid State Physics, 2017, 14, 1600214.	0.8	4
41	Twoâ€Phonon Absorption in TlInTe₂ and TlGaTe₂. Physica Status Solidi (B): Basic Research, 1988, 148, K89.	1.5	3
42	Tlâ€Me Bond and Semiconductorâ€toâ€Metal Transition in TlMeX₂ Lowâ€Dimensional Crystals. Physica Status Solidi (B): Basic Research, 1990, 159, K83.	1.5	3
43	Debye temperatures and Grueneisen parameters of chain TlSe and TlInSe2. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 997-1000.	0.8	3
44	Optical phonons in CdGa2S4x Se4(1 â˜ x) alloys. Semiconductors, 2013, 47, 761-766.	0.5	3
45	Optical characterization of non-annealed CdS:O films for window layers in solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1107-1110.	0.8	3
46	Ab initio calculations of phonon dispersion and lattice dynamics in TlGaTe₂. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 664-667.	0.8	3
47	Ab initio calculations of phonon dispersion in CdGa2Se4. Semiconductors, 2017, 51, 556-558.	0.5	3
48	Optical second harmonic generation in TlMeX₂ (Me=In,Ga,X=S,Se,Te). Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1136-1138.	0.8	2
49	In As1â€“x Sb x heteroepitaxial structures on compositionally graded GaInSb and AlGaInSb buffer layers. Semiconductors, 2017, 51, 524-530.	0.5	2
50	Ab initio Calculations of Phonon Dispersion in CdGa2S4. Physics of the Solid State, 2018, 60, 2305-2309.	0.6	2
51	Electrical and Optical Properties of Unrelaxed InAs1 â€“xSbx Heteroepitaxial Structures. Semiconductors, 2019, 53, 906-910.	0.5	2
52	The Charge Transport Mechanism in a New Magnetic Topological Insulator MnBi0.5Sb1.5Te4. Physics of the Solid State, 2021, 63, 1120-1125.	0.6	2
53	Photoluminescence spectra of TlInSe₂. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2352-2354.	0.8	1
54	Raman scattering and electric conductivity in Bi2(Te0.9Se0.1)3thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 997-1000.	0.8	1

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55	Spectroscopic ellipsometry studies of as-prepared and annealed CdS:O thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 592-595.	0.8	1
56	Structure and optical properties of CdS:O films by cathode sputtering. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 781-784.	0.8	1
57	Excitonic emission of TlGaSe₂. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 830-833.	0.8	1
58	Weak antilocalization in thin films of the Bi2Te2.7Se0.3 solid solution. Physics of the Solid State, 2016, 58, 1870-1875.	0.6	1
59	Ab Initio and Experimental Study of Vibrational Properties of TlFeS2 and TlFeSe2 Crystals. Physics of the Solid State, 2021, 63, 1643-1649.	0.6	1
60	Multi data mode method as an alternative way for SPM studies of high relief surfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2853-2857.	0.8	0
61	Electronic structures of ternaryâ€layered semiconductor TlGaSe₂ investigated by photoemission spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1001-1004.	0.8	0
62	Observation of Two Peculiar Types of Electronic Dispersive Structures in Thallium Selenide Studied by Angle-Resolved Photoemission Spectroscopy. Journal of the Physical Society of Japan, 2014, 83, 053707.	1.6	0
63	Depolarization effect in rareâ€earth doped Y₂O₃ films in blue and UV spectral range. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 600-604.	0.8	0
64	Temperature dependence of dielectric function spectra and interband optical transitions in layered TlInS2. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 061212.	1.2	0
65	Dielectric function spectra and optical transitions in thallium bromide crystals for radiation detectors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 061207.	1.2	0