Junji Tominaga

List of Publications by Year
in descending order

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377	12,315	34105 52	32842 100
papers	citations	h-index	g-index

385	385	385	9657
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An engineering model for high-speed switching in GeSbTe phase-change memory. Applied Physics Express, 2022, 15, 025505.	2.4	0
2	Laser induced spin injection to [GeTe/Sb₂Te₃] superlattice through a TbFeCo film. AIP Advances, 2022, 12, 035328.	1.3	0
3	Chalcogenide Materials Engineering for Phaseâ€Change Memory and Future Electronics Applications: From Sbâ€“Te to Biâ€“Te. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000414.	2.4	7
4	Recent developments concerning the sputter growth of chalcogenide-based layered phase-change materials. Materials Science in Semiconductor Processing, 2021, 135, 106079.	4.0	12
5	Ferromagnetic Resonance of a [GeTe/Sb2Te3]6/Py Superlattice. Magnetochemistry, 2021, 7, 156.	2.4	1
6	Topologically protected spin diffusion and spin generator using chalcogenide superlattices. Npj 2D Materials and Applications, 2020, 4, .	7.9	8
7	Intermixing suppression through the interface in GeTe/Sb₂Te₃ superlattice. Applied Physics Express, 2020, 13, 075503.	2.4	13
8	High-quality sputter-grown layered chalcogenide films for phase change memory applications and beyond. Journal Physics D: Applied Physics, 2020, 53, 284002.	2.8	23
9	Dielectric relaxation in the GeSb2Te4 phase-change material. AIP Conference Proceedings, 2020, , .	0.4	1
10	Mid-infrared Non-volatile Compact Optical Phase Shifter Based on Ge₂Sb₂ Te₅. , 2020, , .		1
11	Photon energy dependence of Kerr rotation in GeTe/Sb₂Te₃ chalcogenide superlattices. Journal of Physics Condensed Matter, 2019, 31, 415502.	1.8	2
12	Switching of the Optical Properties of Ge2Sb2Te5 Phase Change Material in the Terahertz Frequency Region. , 2019, , .		0
13	Terahertz spectroscopic characterization of Ge₂Sb₂Te₅ phase change materials for photonics applications. Journal of Materials Chemistry C, 2019, 7, 8209-8215.	5.5	38
14	Transient Fano Resonance in topological insulators observed by coherent phonon spectroscopy. EPJ Web of Conferences, 2019, 205, 04021.	0.3	0
15	Highâ€Speed Bipolar Switching of Sputtered Geâ€“Te/Sbâ€“Te Superlattice iPCM with Enhanced Cyclability. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900105.	2.4	14
16	Chalcogenide van der Waals superlattices: a case example of interfacial phase-change memory. Pure and Applied Chemistry, 2019, 91, 1777-1786.	1.9	5
17	Origin of resistivity contrast in interfacial phase-change memory: The crucial role of Ge/Sb intermixing. Applied Physics Letters, 2019, 114, .	3.3	37
18	Investigation of the oxidation process in GeTe-based phase change alloy using Ge K-edge XANES spectroscopy. Pure and Applied Chemistry, 2019, 91, 1769-1775.	1.9	2

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19	The Design and Application on Interfacial Phaseâ€€Change Memory. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800539.	2.4	37
20	Re-amorphization of GeSbTe alloys not through a melt-quenching process. Applied Physics Express, 2019, 12, 015504.	2.4	5
21	Terahertz generation measurements of multilayered GeTeâ€“Sb₂Te₃ phase change materials. Optics Letters, 2019, 44, 1355.	3.3	8
22	Variations in Electric Switching and Transverse Resistance of GeTe/ Sb2Te3 Superlattices at Elevated Temperature Studied by Conductive Scanning Probe Microscopy. MRS Advances, 2018, 3, 241-246.	0.9	3
23	Resistive switching characteristics of interfacial phase-change memory at elevated temperature. Japanese Journal of Applied Physics, 2018, 57, 04FE06.	1.5	7
24	Coherent Dirac plasmons in topological insulators. Physical Review B, 2018, 97, .	3.2	11
25	Significant Volume Expansion as a Precursor to Ablation and Micropattern Formation in Phase Change Material Induced by Intense Terahertz Pulses. Scientific Reports, 2018, 8, 2914.	3.3	55
26	A cascading nonlinear magneto-optical effect in topological insulators. Scientific Reports, 2018, 8, 3908.	3.3	10
27	Damage and Micropattem Formation in Ge-Sb-Te Phase Change Materials Induced by Intense Terahertz Pulse Train. , 2018, , .		0
28	Local magnetization of GeTe/Sb₂Te₃ superlattice films using a scanning probe microscope. AIP Advances, 2018, 8, 125004.	1.3	1
29	(Invited) Sputter Growth of Chalcogenide Superlattice Films for Future Phase Change Memory Applications. ECS Transactions, 2018, 86, 49-54.	0.5	5
30	Zener Tunneling Breakdown in Phase-Change Materials Revealed by Intense Terahertz Pulses. Physical Review Letters, 2018, 121, 165702.	7.8	17
31	Reconfiguration of van der Waals Gaps as the Key to Switching in GeTe/Sb2Te3 Superlattices. MRS Advances, 2018, 3, 3413-3418.	0.9	2
32	Allâ€€Optical Detection of Periodic Structure of Chalcogenide Superlattice Using Coherent Folded Acoustic Phonons. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800246.	2.4	0
33	Topological Phase Buried in a Chalcogenide Superlattice Monitored by Helicity-Dependent Kerr Measurement. ACS Applied Materials & Interfaces, 2018, 10, 26781-26786.	8.0	4
34	Topological memory using phase-change materials. MRS Bulletin, 2018, 43, 347-351.	3.5	10
35	(Invited) Sputter Growth of Chalcogenide Superlattice Films for Future Phase Change Memory Application. ECS Meeting Abstracts, 2018, , .	0.0	1
36	Detection of N-Te bonds in the as-deposited amorphous nitrogen-doped GeTe-based phase change alloys using N K-edge XANES spectroscopy and their impact on crystallization. Journal of Alloys and Compounds, 2017, 704, 254-259.	5.5	5

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37	Atomic Reconfiguration of van der Waals Gaps as the Key to Switching in GeTe/Sb₂Te₃ Superlattices. ACS Omega, 2017, 2, 6223-6232.	3.5	58
38	Enhancement of coherent phonon amplitude in phase-change materials by near-infrared laser irradiation. Applied Physics Letters, 2017, 111, .	3.3	4
39	Compositional tuning in sputter-grown highly-oriented Biâ€“Te films and their optical and electronic structures. Nanoscale, 2017, 9, 15115-15121.	5.6	19
40	A Magnetoresistance Induced by a Nonzero Berry Phase in GeTe/Sb 2 Te 3 Chalcogenide Superlattices. Advanced Functional Materials, 2017, 27, 1702243.	14.9	24
41	Local structure of the crystalline and amorphous states of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ga</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> alloy without resonant bonding: A combined x-ray absorption andab initiostudy. Physical Review B, 2017, 95, .	3.2	14
42	Pressure-Induced Phase Transitions in GeTe-Rich Geâ€“Sbâ€“Te Alloys across the Rhombohedral-to-Cubic Transitions. Inorganic Chemistry, 2017, 56, 7687-7693.	4.0	3
43	Manipulating the Bulk Band Structure of Artificially Constructed van der Waals Chalcogenide Heterostructures. ACS Applied Materials & Interfaces, 2017, 9, 23918-23925.	8.0	17
44	Resistive switching mechanism of GeTeâ€“Sb₂Te₃ interfacial phase change memory and topological properties of embedded two-dimensional states. Nanoscale, 2017, 9, 9386-9395.	5.6	36
45	Laser switching and characterisation of chalcogenides: systems, measurements, and applicability to photonics [Invited]. Optical Materials Express, 2017, 7, 3741.	3.0	33
46	Phase-Change Memory Materials. Springer Handbooks, 2017, , 1-1.	0.6	4
47	Strain engineering of atomic and electronic structures of few-monolayer-thick GaN. Physical Review Materials, 2017, 1, .	2.4	18
48	Instability and Spontaneous Reconstruction of Few-Monolayer Thick GaN Graphitic Structures. Nano Letters, 2016, 16, 4849-4856.	9.1	51
49	Manipulation of the presence of helical surface states of topological insulators using Sb2Te3-GeTe superlattices. Applied Physics Letters, 2016, 108, .	3.3	10
50	A two-step process for growth of highly oriented Sb2Te3 using sputtering. AIP Advances, 2016, 6, .	1.3	47
51	Magnetic Field-Dependent Magneto-Optical Kerr Effect in [(GeTe)2(Sb2Te3)1]8 Topological Superlattice. Journal of Electronic Materials, 2016, 45, 2496-2500.	2.2	4
52	Conductance switching behavior of GeTe/Sb2Te3 superlattice upon hot-electron injection: a scanning probe microscopy study. MRS Advances, 2016, 1, 375-380.	0.9	0
53	Electronic excitation-induced semiconductor-to-metal transition in monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2016, 94, .	3.2	48
54	Magnetism in 2D TMDC. Springer Series in Materials Science, 2016, , 365-388.	0.6	0

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55	Spin-Valley Coupling. Springer Series in Materials Science, 2016, , 389-420.	0.6	1
56	TMDC Heterostructures. Springer Series in Materials Science, 2016, , 447-471.	0.6	0
57	Emerging Applications of 2D TMDCs. Springer Series in Materials Science, 2016, , 473-512.	0.6	3
58	The Neverending Story. Springer Series in Materials Science, 2016, , 513-527.	0.6	0
59	Chemistry of Chalcogenides and Transition Metals. Springer Series in Materials Science, 2016, , 7-27.	0.6	1
60	From 3D to 2D: Fabrication Methods. Springer Series in Materials Science, 2016, , 79-107.	0.6	2
61	Luminescence of 2D TMDC. Springer Series in Materials Science, 2016, , 295-320.	0.6	0
62	Excitons. Springer Series in Materials Science, 2016, , 321-363.	0.6	3
63	Bulk TMDCs: Review of Structure and Properties. Springer Series in Materials Science, 2016, , 29-77.	0.6	5
64	Structure and Physico-Chemical Properties of Single Layer and Few-Layer TMDCs. Springer Series in Materials Science, 2016, , 109-163.	0.6	0
65	Electronic Band Structure of 2D TMDCs. Springer Series in Materials Science, 2016, , 165-226.	0.6	1
66	Raman Scattering of 2D TMDCs. Springer Series in Materials Science, 2016, , 227-294.	0.6	4
67	Two-Dimensional Transition-Metal Dichalcogenides. Springer Series in Materials Science, 2016, , .	0.6	126
68	Anisotropic lattice response induced by a linearly-polarized femtosecond optical pulse excitation in interfacial phase change memory material. Scientific Reports, 2016, 6, 19758.	3.3	9
69	THz Pulse Detection by Multilayered GeTe/Sb₂Te₃. ACS Applied Materials & Interfaces, 2016, 8, 32408-32413.	8.0	40
70	Morphology and Electric Conductance Change Induced by Voltage Pulse Excitation in (GeTe)2/Sb2Te3 Superlattices. Scientific Reports, 2016, 6, 33223.	3.3	6
71	Sub-nanometre resolution of atomic motion during electronic excitation in phase-change materials. Scientific Reports, 2016, 6, 20633.	3.3	29
72	Temperature dependence of magneto-optical Kerr signal in GeTe â˜’ Sb2Te3 topological superlattice. AIP Advances, 2016, 6, .	1.3	7

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73	Changes in morphology and local conductance of GeTeâ€“Sb2Te3superlattice films on silicon observed by scanning probe microscopy in a lithography mode. Japanese Journal of Applied Physics, 2016, 55, 04EK02.	1.5	4
74	Selfâ€organized van der Waals epitaxy of layered chalcogenide structures. Physica Status Solidi (B): Basic Research, 2015, 252, 2151-2158.	1.5	61
75	Understanding Phase-Change Memory Alloys from a Chemical Perspective. Scientific Reports, 2015, 5, 13698.	3.3	47
76	Anomalous Phase Change in [(GeTe)2/(Sb2Te3)]20 Superlattice Observed by Coherent Phonon Spectroscopy. Springer Proceedings in Physics, 2015, , 199-201.	0.2	2
77	Coherent gigahertz phonons in Ge2Sb2Te5phase-change materials. Journal of Physics Condensed Matter, 2015, 27, 485402.	1.8	1
78	Giant multiferroic effects in topological GeTe-Sb₂Te₃superlattices. Science and Technology of Advanced Materials, 2015, 16, 014402.	6.1	73
79	Femtosecond structural transformation of phase-change materials far from equilibrium monitored by coherent phonons. Nature Communications, 2015, 6, 8367.	12.8	62
80	Local structure of epitaxial GeTe and Ge₂Sb₂Te₅ films grown on InAs and Si substrates with (100) and (111) orientations: An x-ray absorption near-edge structure study. Journal of Applied Physics, 2015, 117, 125308.	2.5	9
81	Coherent phonon study of (GeTe)l(Sb2Te3)m interfacial phase change memory materials. Applied Physics Letters, 2014, 105, 151902.	3.3	14
82	Hard x-ray photoelectron spectroscopy study of Ge2Sb2Te5; as-deposited amorphous, crystalline, and laser-reamorphized. Applied Physics Letters, 2014, 104, 061909.	3.3	7
83	Ge L3-edge x-ray absorption near-edge structure study of structural changes accompanying conductivity drift in the amorphous phase of Ge2Sb2Te5. Journal of Applied Physics, 2014, 115, .	2.5	34
84	Picosecond strain dynamics in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ge</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> by time-resolved x-ray diffraction. Physical Review B, 2014, 90, .	3.2	19
85	Abâ€initio calculations and structural studies of (SiTe) 2 (Sb 2 Te 3) n (n : 1, 2, 4 and 6) phaseâ€change superlattice films. Physica Status Solidi - Rapid Research Letters, 2014, 8, 302-306.	2.4	29
86	Athermal amorphization of crystallized chalcogenide glasses and phase-change alloys. Physica Status Solidi (B): Basic Research, 2014, 251, 1297-1308.	1.5	15
87	Ferroelectric Order Control of the Diracâ€Semimetal Phase in GeTeâ€Sb₂Te₃ Superlattices. Advanced Materials Interfaces, 2014, 1, 1300027.	3.7	155
88	Doping of ZnO nanowires using phosphorus diffusion from a spin-on doped glass source. Journal of Applied Physics, 2014, 115, 194302.	2.5	2
89	Study of band inversion in the Pb_xSn_{1â^’x}Te class of topological crystalline insulators using x-ray absorption spectroscopy. Journal of Physics Condensed Matter, 2014, 26, 475502.	1.8	11
90	Ferroelectric switching in epitaxial GeTe films. APL Materials, 2014, 2, .	5.1	67

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91	Excitation-Assisted Disordering of GeTe and Related Solids with Resonant Bonding. Journal of Physical Chemistry C, 2014, 118, 10248-10253.	3.1	27
92	Local structure of the SnTe topological crystalline insulator: Rhombohedral distortions emerging from the rocksalt phase. Physical Review B, 2014, 90, .	3.2	21
93	Use of UVâ€“visâ€“NIR spectroscopy to monitor label-free interaction between molecular recognition elements and erythropoietin on a gold-coated polycarbonate platform. Talanta, 2014, 126, 103-109.	5.5	11
94	Sensing strategies for influenza surveillance. Biosensors and Bioelectronics, 2014, 61, 357-369.	10.1	35
95	Mirror-symmetric Magneto-optical Kerr Rotation using Visible Light in [(GeTe)2(Sb2Te3)1]n Topological Superlattices. Scientific Reports, 2014, 4, 5727.	3.3	57
96	Reversible Laser-Induced Transformations in Chalcogenide- and Silicate-Based Optical Materials. Springer Series in Materials Science, 2014, , 223-246.	0.6	0
97	Ultrafast Lattice Dynamics of Phase-change Materials Monitored by a Pump-pump-probe Technique. , 2014, , .		0
98	Label-free methods of reporting biomolecular interactions by optical biosensors. Analyst, The, 2013, 138, 3576.	3.5	83
99	Local instability of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-type bonding makes amorphous GeTe a lone-pair semiconductor. Physical Review B, 2013, 87, .	3.2	35
100	Vacancy-mediated three-center four-electron bonds in GeTe-Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>phase-change memory alloys. Physical Review B, 2013, 87, .	3.2	76
101	Nanometer Resolution XANES Imaging of in situ switched individual PC-RAM devices. Materials Research Society Symposia Proceedings, 2013, 1563, 1.	0.1	1
102	Superlattice Phase Change Memory Fabrication Process for Back End of Line Devices. Japanese Journal of Applied Physics, 2013, 52, 05FF01.	1.5	22
103	Selective detection of tetrahedral units in amorphous GeTe-based phase change alloys using Ge L3-edge x-ray absorption near-edge structure spectroscopy. Applied Physics Letters, 2013, 102, 111904.	3.3	28
104	Ultra-low switching power, crystallographic analysis, and switching mechanism for SnXTe100â^'X/Sb2Te3 diluted superlattice system. Applied Physics Letters, 2013, 103, .	3.3	25
105	Transport properties in a Sbâ€“Te binary topological-insulator system. Journal of Physics Condensed Matter, 2013, 25, 345801.	1.8	18
106	Ultrafast optical manipulation of atomic motion in multilayer Ge-Sb-Te phase change materials. EPJ Web of Conferences, 2013, 41, 03007.	0.3	2
107	Nanometer Resolution XANES Imaging of Individual PC-RAM Devices. Materials Research Society Symposia Proceedings, 2012, 1431, 26.	0.1	0
108	Polarization dependent optical control of atomic arrangement in multilayer Ge-Sb-Te phase change materials. Applied Physics Letters, 2012, 101, 232101.	3.3	15

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109	Enhanced crystallization of GeTe from an Sb2Te3 template. Applied Physics Letters, 2012, 100, .	3.3	56
110	Local structure of nitrogen in N-doped amorphous and crystalline GeTe. Applied Physics Letters, 2012, 100, .	3.3	25
111	Publisher's Note: Crystalline GeTe-based phase-change alloys: Disorder in order [Phys. Rev. B86, 045212 (2012)]. Physical Review B, 2012, 86, .	3.2	0
112	Ultrafast dynamics of coherent optical phonons in GeTe/Sb2Te3 superlattices: thermal conductivity and coherent control. , 2012, , .		1
113	Topological Insulating in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>GeTe</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi>Sb</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Superlattice. Physical Review Letters, 2012, 109, 096802.	7.8	128
114	A reconsideration of the thermodynamics of phaseâ€change switching. Physica Status Solidi (B): Basic Research, 2012, 249, 1932-1938.	1.5	15
115	Aptamer-based bio-sensing platforms for detecting biomolecular interactions. New Biotechnology, 2012, 29, S172-S173.	4.4	0
116	Structure of the Amorphous Phase. Springer Series in Materials Science, 2012, , 181-215.	0.6	0
117	pâ€Type conductivity of GeTe: The role of loneâ€pair electrons. Physica Status Solidi (B): Basic Research, 2012, 249, 1902-1906.	1.5	14
118	Disorder in order: A study of local and global order in Geâ€rich Geï£¿Sbï£¿Te alloys. Physica Status Solidi (B): Basic Research, 2012, 249, 1919-1924.	1.5	5
119	Crystalline GeTe-based phase-change alloys: Disorder in order. Physical Review B, 2012, 86, .	3.2	28
120	Athermal component of amorphisation in phase-change alloys and chalcogenide glasses. Journal of Non-Crystalline Solids, 2012, 358, 2398-2401.	3.1	7
121	Memory Devices. Springer Series in Materials Science, 2012, , 251-276.	0.6	1
122	Structure of the Crystalline Phase. Springer Series in Materials Science, 2012, , 149-179.	0.6	3
123	Pressure-Induced Transformations. Springer Series in Materials Science, 2012, , 217-230.	0.6	0
124	Mechanism of the Phase-Change Process. Springer Series in Materials Science, 2012, , 231-247.	0.6	0
125	Chalcogenides. Springer Series in Materials Science, 2012, , .	0.6	65
126	Amorphous phase of GeTeâ€based phaseâ€change memory alloys: Polyvalency of Geï£¿Te bonding and polyamorphism. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1031-1035.	1.8	5

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127	Comment on â€œNew Structural Picture of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ge</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sb</mml:mi><mml:mi> Alloyâ€• Physical Review Letters, 2012, 108, 239603; author reply 239602.	7.8	6
128	Single-stranded DNA (ssDNA) production in DNA aptamer generation. Analyst, The, 2012, 137, 1307.	3.5	111
129	Assays for aptamer-based platforms. Biosensors and Bioelectronics, 2012, 34, 1-11.	10.1	169
130	Bond-Selective Excitation and Following Displacement of Ge Atoms in GeTe/Sb2Te3Superlattice. Acta Physica Polonica A, 2012, 121, 336-339.	0.5	1
131	Interfacial phase-change memory. Nature Nanotechnology, 2011, 6, 501-505.	31.5	630
132	Ultrafast optical manipulation of atomic arrangements in chalcogenide alloy memory materials. Optics Express, 2011, 19, 1260.	3.4	84
133	A BioDVD Media with Multilayered Structure Is Suitable for Analyzing Biomolecular Interactions. Journal of Nanoscience and Nanotechnology, 2011, 11, 5682-5688.	0.9	18
134	Tracks adjustment on the BioDVD platform for data averaging. , 2011, , .		0
135	Distortion-triggered loss of long-range order in solids with bonding energy hierarchy. Nature Chemistry, 2011, 3, 311-316.	13.6	178
136	The order-disorder transition in GeTe: Views from different length-scales. Applied Physics Letters, 2011, 99, .	3.3	63
137	Thermal conductivity of GeTe/Sb2Te3 superlattices measured by coherent phonon spectroscopy. Applied Physics Letters, 2011, 99, .	3.3	12
138	Effect of doping on global and local order in crystalline GeTe. Applied Physics Letters, 2011, 98, .	3.3	20
139	Local atomic order of crystalline Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>8</mml:mn></mml:msub></mml:math>Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	3.2	18
140	Electrical-field induced giant magnetoresistivity in (non-magnetic) phase change films. Applied Physics Letters, 2011, 99, 152105.	3.3	74
141	Local structure of melt-quenched amorphous Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>3</mml:mn>	3.2	109
142	Pressure-induced structural transitions in phase-change materials based on Ge-free Sb-Te alloys. Physical Review B, 2011, 83, .	3.2	13
143	Optically Induced Sub-Wavelength Transient Apertures in Sb-Te Based Films. Materials Research Society Symposia Proceedings, 2011, 1338, 32001.	0.1	1
144	Evaluation of nucleic acid duplex formation on gold over layers in biosensor fabricated using Czochralski-grown single-crystal silicon substrate. Analytical and Bioanalytical Chemistry, 2010, 398, 751-758.	3.7	23

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145	Wettability control using large-area nanostructured film. Microelectronic Engineering, 2010, 87, 1424-1427.	2.4	10
146	Stress Limited Scaling of Ge₂Sb₂Te₅. Materials Research Society Symposia Proceedings, 2010, 1251, 2.	0.1	3
147	Amorphous InSb: Longer bonds yet higher density. Journal of Applied Physics, 2010, 108, 023506.	2.5	13
148	Non-melting super-resolution near-field apertures in Sbâ€“Te alloys. Applied Physics Letters, 2010, 97, 161906.	3.3	33
149	Photoassisted amorphization of the phase-change memory alloy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ge</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Physical Review B, 2010, 82, .	3.2	80
150	First Playback of High-Definition Video Contents from Super-Resolution Near-Field Structure Optical Disc. Japanese Journal of Applied Physics, 2010, 49, 08KE02.	1.5	16
151	Toward the Ultimate Limit of Phase Change in Ge₂Sb₂Te₅. Nano Letters, 2010, 10, 414-419.	9.1	226
152	Phase transition in crystalline GeTe: Pitfalls of averaging effects. Physical Review B, 2010, 82, .	3.2	95
153	Ultrafast phase change in Ge2Sb2Te5 induced by selective excitation of coherent phonons. , 2010, , .		0
154	Ultrafast dephasing of coherent optical phonons in atomically controlled<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>GeTe</mml:mtext><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mtext>Sb</mml:m Physical Review B, 2009, 79, .	3.2	45
155	Monitoring biological interactions using perforated evanescent-field-coupled waveguide-mode nanobiosensors. Nucleic Acids Symposium Series, 2009, 53, 93-94.	0.3	2
156	Liquid Ge2Sb2Te5 studied by extended x-ray absorption. Applied Physics Letters, 2009, 95, .	3.3	27
157	Optical Fiber Depolarizer Using Birefringence Induced by Proton Implantation. Japanese Journal of Applied Physics, 2009, 48, 032404.	1.5	4
158	Crystallization of Bi Doped Sb₈Te₂. Japanese Journal of Applied Physics, 2009, 48, 03A062.	1.5	5
159	What is the Origin of Activation Energy in Phase-Change Film?. Japanese Journal of Applied Physics, 2009, 48, 03A053.	1.5	48
160	Mechanism of elongation of gold or silver nanoparticles in silica by irradiation with swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 941-943.	1.4	15
161	Monitoring surface-assisted biomolecular assembly by means of evanescent-field-coupled waveguide-mode nanobiosensors. Analytical and Bioanalytical Chemistry, 2009, 394, 481-488.	3.7	17
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