Paul Fons

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9,338 85 49 323 h-index g-index citations papers 5.82 10,032 3.5 347 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
323	Understanding the phase-change mechanism of rewritable optical media. <i>Nature Materials</i> , 2004 , 3, 703	8- 2 87	1057
322	Interfacial phase-change memory. <i>Nature Nanotechnology</i> , 2011 , 6, 501-5	28.7	528
321	ZnO transparent conducting films deposited by pulsed laser deposition for solar cell applications. <i>Thin Solid Films</i> , 2003 , 431-432, 369-372	2.2	214
320	Toward the ultimate limit of phase change in Ge(2)Sb(2)Te(5). Nano Letters, 2010, 10, 414-9	11.5	201
319	Uniaxial locked epitaxy of ZnO on the a face of sapphire. <i>Applied Physics Letters</i> , 2000 , 77, 1801	3.4	178
318	Growth of high-quality epitaxial ZnO films on #Al2O3. <i>Journal of Crystal Growth</i> , 1999 , 201-202, 627-632	1.6	162
317	Distortion-triggered loss of long-range order in solids with bonding energy hierarchy. <i>Nature Chemistry</i> , 2011 , 3, 311-6	17.6	158
316	Nitrogen-induced defects in ZnO:N grown on sapphire substrate by gas source MBE. <i>Journal of Crystal Growth</i> , 2000 , 209, 526-531	1.6	144
315	Raman scattering study of GeTe and Ge2Sb2Te5 phase-change materials. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 1074-1078	3.9	137
314	Ferroelectric Order Control of the Dirac-Semimetal Phase in GeTe-Sb2Te3 Superlattices. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300027	4.6	133
313	Na-induced variations in the structural, optical, and electrical properties of Cu(In,Ga)Se2 thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 034908	2.5	126
312	Band-gap modified Al-doped Zn1MgxO transparent conducting films deposited by pulsed laser deposition. <i>Applied Physics Letters</i> , 2004 , 85, 1374-1376	3.4	126
311	Interactions between gallium and nitrogen dopants in ZnO films grown by radical-source molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2001 , 79, 4139-4141	3.4	123
310	Direct observation of nitrogen location in molecular beam epitaxy grown nitrogen-doped ZnO. <i>Physical Review Letters</i> , 2006 , 96, 045504	7.4	115
309	Band gap energies of bulk, thin-film, and epitaxial layers of CuInSe2 and CuGaSe2. <i>Journal of Applied Physics</i> , 1998 , 83, 3678-3689	2.5	107
308	ZnO growth on Si by radical source MBE. <i>Journal of Crystal Growth</i> , 2000 , 214-215, 50-54	1.6	106
307	Polarization-induced two-dimensional electron gases in ZnMgO/ZnO heterostructures. <i>Applied Physics Letters</i> , 2008 , 93, 202104	3.4	105

(2008-2006)

306	Two-dimensional electron gas in Zn polar ZnMgOIInO heterostructures grown by radical source molecular beam epitaxy. <i>Applied Physics Letters</i> , 2006 , 89, 132113	3.4	105
305	Local structure of crystallized GeTe films. <i>Applied Physics Letters</i> , 2003 , 82, 382-384	3.4	102
304	Intrinsic complexity of the melt-quenched amorphous Ge2Sb2Te5 memory alloy. <i>Physical Review B</i> , 2011 , 83,	3.3	100
303	Pressure-induced site-selective disordering of Ge2Sb2Te5: a new insight into phase-change optical recording. <i>Physical Review Letters</i> , 2006 , 97, 035701	7.4	94
302	Fabrication of wide-gap Cu(In1\(\text{In1} \text{IGax} \) Se2 thin film solar cells: a study on the correlation of cell performance with highly resistive i-ZnO layer thickness. Solar Energy Materials and Solar Cells, 2005, 87, 541-548	6.4	91
301	Phase transition in crystalline GeTe: Pitfalls of averaging effects. <i>Physical Review B</i> , 2010 , 82,	3.3	83
300	Uniaxial locked growth of high-quality epitaxial ZnO films on -Al2O3. <i>Journal of Crystal Growth</i> , 2000 , 209, 532-536	1.6	81
299	Growth of Undoped ZnO Films with Improved Electrical Properties by Radical Source Molecular Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 250-254	1.4	77
298	Photoassisted amorphization of the phase-change memory alloy Ge2Sb2Te5. <i>Physical Review B</i> , 2010 , 82,	3.3	69
297	Electrical-field induced giant magnetoresistivity in (non-magnetic) phase change films. <i>Applied Physics Letters</i> , 2011 , 99, 152105	3.4	66
296	Giant multiferroic effects in topological GeTe-SbTe superlattices. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 014402	7.1	65
295	Degenerate layers in epitaxial ZnO films grown on sapphire substrates. <i>Applied Physics Letters</i> , 2004 , 84, 4412-4414	3.4	63
294	Role of Ge Switch in Phase Transition: Approach using Atomically Controlled GeTe/Sb2Te3Superlattice. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 5763-5766	1.4	62
293	Molecular dynamics simulations of low-energy particle bombardment effects during vapor-phase crystal growth: 10 eV Si atoms incident on Si(001)2 surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990 , 8, 3726-3735	2.9	61
292	Vacancy-mediated three-center four-electron bonds in GeTe-Sb2Te3 phase-change memory alloys. <i>Physical Review B</i> , 2013 , 87,	3.3	59
291	Determination of crystallographic polarity of ZnO layers. <i>Applied Physics Letters</i> , 2005 , 87, 141904	3.4	58
290	Effects of the surface Cu2\(\mathbb{\text{NS}}\)e phase on the growth and properties of CuInSe2 films. <i>Applied Physics Letters</i> , 1999 , 74, 1630-1632	3.4	58
289	Alkali incorporation control in Cu(In,Ga)Se2 thin films using silicate thin layers and applications in enhancing flexible solar cell efficiency. <i>Applied Physics Letters</i> , 2008 , 93, 124105	3.4	56

288 Heteroepitaxy and characterization of CuInSe2 on GaAs(001). Journal of Crystal Growth, 1995, 150, 12011@05 56

			, 30
287	The order-disorder transition in GeTe: Views from different length-scales. <i>Applied Physics Letters</i> , 2011 , 99, 231907	3.4	55
286	Crystallization-induced short-range order changes in amorphous GeTe. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S5103-S5108	1.8	55
285	Structural tuning of wide-gap chalcopyrite CuGaSe2 thin films and highly efficient solar cells: differences from narrow-gap Cu(In,Ga)Se2. <i>Progress in Photovoltaics: Research and Applications</i> , 2014 , 22, 821-829	6.8	54
284	Self-organized van der Waals epitaxy of layered chalcogenide structures. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2151-2158	1.3	54
283	Improved External Efficiency InGaN-Based Light-Emitting Diodes with Transparent Conductive Ga-Doped ZnO as p-Electrodes. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, L180-L182	1.4	54
282	Ferroelectric switching in epitaxial GeTe films. APL Materials, 2014, 2, 066101	5.7	53
281	Growth of N-doped and Ga+N-codoped ZnO films by radical source molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2002 , 237-239, 503-508	1.6	53
280	Strong excitonic transition of Zn1⊠MgxO alloy. <i>Applied Physics Letters</i> , 2007 , 91, 261907	3.4	52
279	Mirror-symmetric magneto-optical Kerr rotation using visible light in [(GeTe)2(Sb2Te3)1]n topological superlattices. <i>Scientific Reports</i> , 2014 , 4, 5727	4.9	51
278	Improvement of ZnO TCO film growth for photovoltaic devices by reactive plasma deposition (RPD). <i>Thin Solid Films</i> , 2005 , 480-481, 199-203	2.2	50
277	Molecular dynamics and quasidynamics simulations of the annealing of bulk and near-surface interstitials formed in molecular-beam epitaxial Si due to low-energy particle bombardment during deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1991 , 9, 91-97	2.9	50
276	In situ diagnostic methods for thin-film fabrication: utilization of heat radiation and light scattering. <i>Progress in Photovoltaics: Research and Applications</i> , 2004 , 12, 219-234	6.8	49
275	Why Phase-Change Media Are Fast and Stable: A New Approach to an Old Problem. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 3345-3349	1.4	49
274	Atomic Reconfiguration of van der Waals Gaps as the Key to Switching in GeTe/SbTe Superlattices. <i>ACS Omega</i> , 2017 , 2, 6223-6232	3.9	48
273	Enhanced crystallization of GeTe from an Sb2Te3 template. <i>Applied Physics Letters</i> , 2012 , 100, 021911	3.4	48
272	Changes in electronic structure and chemical bonding upon crystallization of the phase change material GeSb2Te4. <i>Physical Review Letters</i> , 2008 , 100, 016402	7.4	48
271	Growth and electrical properties of ZnO thin films deposited by novel ion plating method. <i>Thin Solid Films</i> , 2003 , 445, 274-277	2.2	48

(2006-1995)

270	Excitonic emissions from CuInSe2 on GaAs(001) grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1995 , 67, 1289-1291	3.4	48	
269	Initial structure memory of pressure-induced changes in the phase-change memory alloy Ge2Sb2Te5. <i>Physical Review Letters</i> , 2009 , 103, 115502	7.4	47	
268	Room-temperature deposition of Al-doped ZnO films by oxygen radical-assisted pulsed laser deposition. <i>Thin Solid Films</i> , 2002 , 422, 176-179	2.2	47	
267	Femtosecond structural transformation of phase-change materials far from equilibrium monitored by coherent phonons. <i>Nature Communications</i> , 2015 , 6, 8367	17.4	46	
266	Development of high-efficiency flexible Cu(In,Ga)Se2 solar cells: A study of alkali doping effects on CIS, CIGS, and CGS using alkali-silicate glass thin layers. <i>Current Applied Physics</i> , 2010 , 10, S154-S156	2.6	45	
265	Local structure of Ge nanoislands on Si(111) surfaces with a SiO2 coverage. <i>Applied Physics Letters</i> , 2001 , 78, 2563-2565	3.4	44	
264	High quality CuInSe2 films grown on pseudo-lattice-matched substrates by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1996 , 69, 647-649	3.4	43	
263	Understanding Phase-Change Memory Alloys from a Chemical Perspective. <i>Scientific Reports</i> , 2015 , 5, 13698	4.9	41	
262	What is the Origin of Activation Energy in Phase-Change Film?. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 03A053	1.4	39	
261	Cu(In1\(\text{IGax}\) Se2 growth studies by in situ spectroscopic light scattering. <i>Applied Physics Letters</i> , 2003 , 82, 2091-2093	3.4	39	
260	Instability and Spontaneous Reconstruction of Few-Monolayer Thick GaN Graphitic Structures. <i>Nano Letters</i> , 2016 , 16, 4849-56	11.5	39	
259	Measurements of Temperature Dependence of Optical and Thermal Properties of Optical Disk Materials. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 1419-1421	1.4	38	
258	Improvement of Electrical Properties in ZnO Thin Films Grown by Radical Source(RS)-MBE. <i>Physica Status Solidi A</i> , 2000 , 180, 287-292		38	
257	A sensitive multilayered structure suitable for biosensing on the BioDVD platform. <i>Analytical Chemistry</i> , 2009 , 81, 4963-70	7.8	37	
256	Epitaxial growth of ZnO thin films on LiNbO3 substrates. <i>Thin Solid Films</i> , 1999 , 347, 238-240	2.2	37	
255	A two-step process for growth of highly oriented Sb2Te3 using sputtering. AIP Advances, 2016 , 6, 0452	2 20 .5	37	
254	Electronic excitation-induced semiconductor-to-metal transition in monolayer MoTe2. <i>Physical Review B</i> , 2016 , 94,	3.3	37	
253	On a thermally induced readout mechanism in super-resolution optical disks. <i>Journal of Applied Physics</i> , 2006 , 100, 043106	2.5	35	

Existence of tetrahedral site symmetry about Ge atoms in a single-crystal film of Ge2Sb2Te5 found

Epitaxial phase-change materials. Physica Status Solidi - Rapid Research Letters, 2012, 6, 415-417

by x-ray fluorescence holography. Applied Physics Letters, 2007, 90, 131913

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234	Band profiles of ZnMgO/ZnO heterostructures confirmed by Kelvin probe force microscopy. <i>Applied Physics Letters</i> , 2009 , 94, 242107	3.4	29	
233	Similarities and Critical Differences in Heavy Alkali-Metal Rubidium and Cesium Effects on Chalcopyrite Cu(In,Ga)Se2 Thin-Film Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17757-17764	1 ^{3.8}	28	
232	Ge L3-edge x-ray absorption near-edge structure study of structural changes accompanying conductivity drift in the amorphous phase of Ge2Sb2Te5. <i>Journal of Applied Physics</i> , 2014 , 115, 173501	2.5	28	
231	Local instability of p-type bonding makes amorphous GeTe a lone-pair semiconductor. <i>Physical Review B</i> , 2013 , 87,	3.3	28	
230	Selective detection of tetrahedral units in amorphous GeTe-based phase change alloys using Ge L3-edge x-ray absorption near-edge structure spectroscopy. <i>Applied Physics Letters</i> , 2013 , 102, 111904	3.4	28	
229	Anion vacancies in CuInSe2. <i>Thin Solid Films</i> , 2001 , 387, 129-134	2.2	28	
228	Origin of resistivity contrast in interfacial phase-change memory: The crucial role of Ge/Sb intermixing. <i>Applied Physics Letters</i> , 2019 , 114, 132102	3.4	27	
227	Ab-initio calculations and structural studies of (SiTe)2(Sb2Te3)n (n: 1, 2, 4 and 6) phase-change superlattice films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 302-306	2.5	27	
226	Non-melting super-resolution near-field apertures in SbITe alloys. <i>Applied Physics Letters</i> , 2010 , 97, 1619	90364	27	
225	Buried p-n junction formation in CuGaSe2 thin-film solar cells. <i>Applied Physics Letters</i> , 2014 , 104, 031600	63.4	26	
224	Excitation-Assisted Disordering of GeTe and Related Solids with Resonant Bonding. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10248-10253	3.8	25	
223	Why DVDs work the way they do: The nanometer-scale mechanism of phase change in GeBbIIe alloys. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1612-1615	3.9	25	
222	Liquid Ge2Sb2Te5 studied by extended x-ray absorption. <i>Applied Physics Letters</i> , 2009 , 95, 241902	3.4	24	
221	Growth of polycrystalline Cu(In,Ga)Se2 thin films using a radio frequency-cracked Se-radical beam source and application for photovoltaic devices. <i>Applied Physics Letters</i> , 2007 , 91, 041902	3.4	24	
220	Crystalline GeTe-based phase-change alloys: Disorder in order. <i>Physical Review B</i> , 2012 , 86,	3.3	23	
219	Sub-nanometre resolution of atomic motion during electronic excitation in phase-change materials. <i>Scientific Reports</i> , 2016 , 6, 20633	4.9	22	
218	A Magnetoresistance Induced by a Nonzero Berry Phase in GeTe/Sb2Te3 Chalcogenide Superlattices. <i>Advanced Functional Materials</i> , 2017 , 27, 1702243	15.6	22	
217	Local structure of nitrogen in N-doped amorphous and crystalline GeTe. <i>Applied Physics Letters</i> , 2012 , 100, 061910	3.4	22	

216	Direct observation of the Cu2\(\mathbb{I}\)Se phase of Cu-rich epitaxial CuInSe2 grown on GaAs (001). <i>Journal of Applied Physics</i> , 1998 , 84, 6926-6928	2.5	22
215	Doping properties of ZnO thin films for photovoltaic devices grown by URT-IP (ion plating) method. <i>Thin Solid Films</i> , 2004 , 451-452, 219-223	2.2	22
214	Characterization of ZnO crystals by photoluminescence spectroscopy. <i>Physica Status Solidi C:</i> Current Topics in Solid State Physics, 2004 , 1, 872-875		22
213	Properties of CuInGaSe2 solar cells based upon an improved three-stage process. <i>Thin Solid Films</i> , 2003 , 431-432, 6-10	2.2	22
212	Photoluminescence characterization of excitonic centers in ZnO epitaxial films. <i>Applied Physics Letters</i> , 2005 , 86, 221907	3.4	22
211	Interfacial alkali diffusion control in chalcopyrite thin-film solar cells. <i>ACS Applied Materials & Amp; Interfaces</i> , 2014 , 6, 14123-30	9.5	21
210	A hard X-ray nanospectroscopy station at SPring-8 BL39XU. <i>Journal of Physics: Conference Series</i> , 2013 , 430, 012017	0.3	21
209	Large grain Cu(In,Ga)Se2 thin film growth using a Se-radical beam source. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 792-796	6.4	21
208	Phase-change optical recording: Past, present, future. <i>Thin Solid Films</i> , 2007 , 515, 7534-7537	2.2	21
207	Molecular beam epitaxial growth and characterization of CuInSe2 and CuGaSe2 for device applications. <i>Journal of Crystal Growth</i> , 2002 , 237-239, 1993-1999	1.6	21
206	Nucleation and growth of ZnO on sapphire substrates using molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2001 , 227-228, 911-916	1.6	21
205	Photoluminescence properties of sodium incorporation in CuInSe2 and CuIn3Se5 thin films. <i>Solar Energy Materials and Solar Cells</i> , 2001 , 67, 289-295	6.4	21
204	Reduction in crystallization time of Sb:Te films through addition of Bi. <i>Applied Physics Letters</i> , 2008 , 92, 141921	3.4	20
203	An option for the surface science on Cu chalcopyrites: the selenium capping and decapping process. <i>Surface Science</i> , 2004 , 557, 263-268	1.8	20
202	An EXAFS and XANES study of MBE grown Cu-doped ZnO. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 199, 190-194	1.2	20
201	Optical characterizations of CuInSe2 epitaxial layers grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 1999 , 86, 4354-4359	2.5	20
200	Effects of RbF postdeposition treatment and heat-light soaking on the metastable acceptor activation of CuInSe2 thin film photovoltaic devices. <i>Applied Physics Letters</i> , 2018 , 113, 063901	3.4	19
199	Local structure of the SnTe topological crystalline insulator: Rhombohedral distortions emerging from the rocksalt phase. <i>Physical Review B</i> , 2014 , 90,	3.3	19

198	Effect of doping on global and local order in crystalline GeTe. Applied Physics Letters, 2011, 98, 231907	3.4	19
197	Observation of Exciton-Polariton Emissions from a ZnO Epitaxial Film on the a-Face of Sapphire Grown by Radical-Source Molecular-Beam-Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L935-L	.9 ¹ 3 1 7	19
196	Impact of a binary Ga2Se3 precursor on ternary CuGaSe2 thin-film and solar cell device properties. <i>Applied Physics Letters</i> , 2013 , 103, 143903	3.4	18
195	Electronic Structure of Transition-Metal Based Cu2GeTe3 Phase Change Material: Revealing the Key Role of Cu d Electrons. <i>Chemistry of Materials</i> , 2017 , 29, 7440-7449	9.6	18
194	Recrystallization of an amorphized epitaxial phase-change alloy: A phoenix arising from the ashes. <i>Applied Physics Letters</i> , 2012 , 101, 061903	3.4	18
193	Thermal Conductivity Measurements of SbITe Alloy Thin Films Using a Nanosecond Thermoreflectance Measurement System. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 6863-6864	1.4	18
192	A XANES Study of Cu Valency in Cu-Doped Epitaxial ZnO. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 229, 849-852	1.3	18
191	Ion-beam doping of GaAs with low-energy (100 eV) C+ using combined ion-beam and molecular-beam epitaxy. <i>Journal of Applied Physics</i> , 1995 , 77, 146-152	2.5	18
190	The strain energy density of cubic epitaxial layers. Journal of Crystal Growth, 1996, 160, 406-412	1.6	17
189	Growth of CuGaSe2 film by molecular beam epitaxy. <i>Microelectronics Journal</i> , 1996 , 27, 53-58	1.8	17
188	Local atomic order of crystalline Ge8Sb2Te11 across the ferroelectric to paraelectric transition: The role of vacancies and static disorder. <i>Physical Review B</i> , 2011 , 84,	3.3	16
187	In situ deposition rate monitoring during the three-stage-growth process of Cu(In,Ga)Se2 absorber films. <i>Thin Solid Films</i> , 2003 , 431-432, 16-21	2.2	16
186	Static analysis of off-axis crystal film growth onto a lattice-mismatched substrate. <i>Applied Physics Letters</i> , 2001 , 79, 608-610	3.4	16
185	Low energy (100 eV) C+ ion doping into GaAs using combined ion beam and molecular beam epitaxial technology. <i>Applied Physics Letters</i> , 1993 , 63, 1951-1953	3.4	16
184	High-quality sputter-grown layered chalcogenide films for phase change memory applications and beyond. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 284002	3	15
183	Manipulating the Bulk Band Structure of Artificially Constructed van der Waals Chalcogenide Heterostructures. <i>ACS Applied Materials & Samp; Interfaces</i> , 2017 , 9, 23918-23925	9.5	15
182	Polarization dependent optical control of atomic arrangement in multilayer Ge-Sb-Te phase change materials. <i>Applied Physics Letters</i> , 2012 , 101, 232101	3.4	15
181	Characteristics of nanostructured Ag films by the reduction of sputtered AgOxthin films. <i>Nanotechnology</i> , 2006 , 17, 79-82	3.4	15

180	A possible mechanism of ultrafast amorphization in phase-change memory alloys: an ion slingshot from the crystalline to amorphous position. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 455209	1.8	15
179	Soft X-ray XANES of N in ZnO:N IWhy is doping so difficult?. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 246, 75-78	1.2	15
178	Strain engineering of atomic and electronic structures of few-monolayer-thick GaN. <i>Physical Review Materials</i> , 2017 , 1,	3.2	15
177	Compositional tuning in sputter-grown highly-oriented Bi-Te films and their optical and electronic structures. <i>Nanoscale</i> , 2017 , 9, 15115-15121	7.7	14
176	Coherent phonon study of (GeTe)l(Sb2Te3)m interfacial phase change memory materials. <i>Applied Physics Letters</i> , 2014 , 105, 151902	3.4	14
175	A reconsideration of the thermodynamics of phase-change switching. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 1932-1938	1.3	14
174	Effects of annealing on CuInSe2 films grown by molecular beam epitaxy. <i>Solar Energy Materials and Solar Cells</i> , 1997 , 49, 319-326	6.4	14
173	Growth of LiNbO3 epitaxial films by oxygen radical-assisted laser molecular beam epitaxy. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S679-S681	2.6	14
172	Cr-Triggered Local Structural Change in CrGeTe Phase Change Material. <i>ACS Applied Materials</i> & Amp; Interfaces, 2019 , 11, 43320-43329	9.5	13
171	Picosecond strain dynamics in Ge2Sb2Te5 monitored by time-resolved x-ray diffraction. <i>Physical Review B</i> , 2014 , 90,	3.3	13
170	Pressure-induced structural transitions in phase-change materials based on Ge-free Sb-Te alloys. <i>Physical Review B</i> , 2011 , 83,	3.3	13
169	Observation of diamond crystallites in thin films prepared by laser ablation of hard fullerene-based carbon. <i>Journal Physics D: Applied Physics</i> , 1996 , 29, 929-933	3	13
168	Epitaxial growth of Si by ArF laser-excited supersonic free jets of Si2H6. <i>Applied Physics Letters</i> , 1993 , 63, 3473-3475	3.4	13
167	Zener Tunneling Breakdown in Phase-Change Materials Revealed by Intense Terahertz Pulses. <i>Physical Review Letters</i> , 2018 , 121, 165702	7.4	13
166	Terahertz spectroscopic characterization of Ge2Sb2Te5 phase change materials for photonics applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8209-8215	7.1	12
165	High-Speed Bipolar Switching of Sputtered Gelle/Sblle Superlattice iPCM with Enhanced Cyclability. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900105	2.5	12
164	Local structure of the crystalline and amorphous states of Ga2Te3 phase-change alloy without resonant bonding: A combined x-ray absorption and ab initio study. <i>Physical Review B</i> , 2017 , 95,	3.3	12
163	Amorphous InSb: Longer bonds yet higher density. <i>Journal of Applied Physics</i> , 2010 , 108, 023506	2.5	12

162	Local structure of amorphous Ge?Sb?Te alloys: Ge umbrella flip vs. DFT simulations. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1826-1830	1.3	12
161	Sub-Nanosecond Time-Resolved Structural Measurements of the Phase-Change Alloy Ge2Sb2Te5. Japanese Journal of Applied Physics, 2007 , 46, 3711-3714	1.4	12
160	Si-Doping Effects in Cu(In,Ga)Se Thin Films and Applications for Simplified Structure High-Efficiency Solar Cells. <i>ACS Applied Materials & amp; Interfaces</i> , 2017 , 9, 31119-31128	9.5	11
159	Athermal amorphization of crystallized chalcogenide glasses and phase-change alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 1297-1308	1.3	11
158	CIGS thin films, solar cells, and submodules fabricated using a rf-plasma cracked Se-radical beam source. <i>Thin Solid Films</i> , 2011 , 519, 7216-7220	2.2	11
157	Temperature dependence of photoacoustic spectra in CuInSe2 thin films grown by molecular beam epitaxy. <i>Solar Energy Materials and Solar Cells</i> , 1998 , 50, 127-132	6.4	11
156	InGaN-based light-emitting diodes fabricated with transparent Ga-doped ZnO as ohmic p-contact. <i>Physica Status Solidi A</i> , 2004 , 201, 2704-2707		11
155	Adjusting the sodium diffusion into CuInGaSe2 absorbers by preheating of Mo/SLG substrates. Journal of Physics and Chemistry of Solids, 2003 , 64, 1877-1880	3.9	11
154	Effects of Sodium on CuIn3Se5 Thin Films. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, L899-L901	1.4	11
153	Enhanced Sb2S3 crystallisation by electric field induced silver doping. <i>Thin Solid Films</i> , 2016 , 616, 80-85	2.2	11
152	Lithium-Doping Effects in Cu(In,Ga)Se Thin-Film and Photovoltaic Properties. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 25058-25065	9.5	10
151	Second-harmonic generation from CuInSe/sub 2/ thin films: influence of the substrate-epilayer lattice mismatch. <i>IEEE Journal of Quantum Electronics</i> , 1997 , 33, 1294-1298	2	10
150	Thermal conductivity measurements of low-k films using thermoreflectance phenomenon. <i>Microelectronic Engineering</i> , 2008 , 85, 796-799	2.5	10
149	A Reversible Change of Reflected Light Intensity between Molten and Solidified Geßble Alloy. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L868-L870	1.4	10
148	Determination of the lattice constants of epitaxial layers. <i>Journal of Crystal Growth</i> , 1995 , 154, 401-409	1.6	10
147	Molecular dynamics and quasidynamics simulations of low-energy ion/surface interactions leading to decreased epitaxial temperatures and increased dopant incorporation probabilities during Si MBE. <i>Journal of Crystal Growth</i> , 1991 , 111, 870-875	1.6	10
146	Understanding the fast phase-change mechanism of tetrahedrally bonded Cu2GeTe3: Comprehensive analyses of electronic structure and transport phenomena. <i>Physical Review B</i> , 2018 , 97,	3.3	9
145	p-Type conductivity of GeTe: The role of lone-pair electrons. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 1902-1906	1.3	9

144	Electron beam probe quantization of compound composition: surface phases and surface roughness. <i>Thin Solid Films</i> , 2003 , 431-432, 277-283	2.2	9
143	Amorphization Processes in Ion Implanted Si: Temperature Dependence. <i>Japanese Journal of Applied Physics</i> , 1991 , 30, 3617-3620	1.4	9
142	Interface oxygen and heat sensitivity of Cu(In,Ga)Se2 and CuGaSe2 solar cells. <i>Applied Physics Letters</i> , 2016 , 108, 203902	3.4	9
141	Study of band inversion in the PbxSn1-xTe class of topological crystalline insulators using x-ray absorption spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 475502	1.8	8
140	Proposal of a grating-based optical reflection switch using phase change materials. <i>Optics Express</i> , 2009 , 17, 16947-56	3.3	8
139	Effects of low temperature buffer layer treatments on the growth of high quality ZnO films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 888-891		8
138	Temperature variation of nonradiative carrier recombination processes in high-quality CuGaSe2 thin films grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2000 , 77, 259-261	3.4	8
137	Determination of the valence electronic structure of condensed trimethylaluminum by photoelectron spectroscopy and molecular-orbital calculations. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988 , 6, 3115-3119	2.9	8
136	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. <i>Journal of Applied Physics</i> , 2015 , 117, 125308	2.5	7
135	Coherent Dirac plasmons in topological insulators. <i>Physical Review B</i> , 2018 , 97,		7
		3.3	/
134	Si-Doped Cu(In,Ga)Se2 Photovoltaic Devices with Energy Conversion Efficiencies Exceeding 16.5% without a Buffer Layer. <i>Advanced Energy Materials</i> , 2018 , 8, 1702391	21.8	7
134		21.8	
	without a Buffer Layer. Advanced Energy Materials, 2018, 8, 1702391	21.8	7
133	without a Buffer Layer. <i>Advanced Energy Materials</i> , 2018 , 8, 1702391 A cascading nonlinear magneto-optical effect in topological insulators. <i>Scientific Reports</i> , 2018 , 8, 3908 Anisotropic lattice response induced by a linearly-polarized femtosecond optical pulse excitation in	21.8 4.9	7
133	without a Buffer Layer. <i>Advanced Energy Materials</i> , 2018 , 8, 1702391 A cascading nonlinear magneto-optical effect in topological insulators. <i>Scientific Reports</i> , 2018 , 8, 3908 Anisotropic lattice response induced by a linearly-polarized femtosecond optical pulse excitation in interfacial phase change memory material. <i>Scientific Reports</i> , 2016 , 6, 19758 Athermal component of amorphisation in phase-change alloys and chalcogenide glasses. <i>Journal of</i>	21.8 4.9 4.9 3.9	7 7 7
133 132 131	without a Buffer Layer. <i>Advanced Energy Materials</i> , 2018 , 8, 1702391 A cascading nonlinear magneto-optical effect in topological insulators. <i>Scientific Reports</i> , 2018 , 8, 3908 Anisotropic lattice response induced by a linearly-polarized femtosecond optical pulse excitation in interfacial phase change memory material. <i>Scientific Reports</i> , 2016 , 6, 19758 Athermal component of amorphisation in phase-change alloys and chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2398-2401 Photoreflectance and Photoluminescence of Exciton-Polaritons in a ZnO Epilayer Grown on the	21.8 4.9 4.9 3.9	7 7 7
133 132 131 130	A cascading nonlinear magneto-optical effect in topological insulators. <i>Scientific Reports</i> , 2018 , 8, 3908 Anisotropic lattice response induced by a linearly-polarized femtosecond optical pulse excitation in interfacial phase change memory material. <i>Scientific Reports</i> , 2016 , 6, 19758 Athermal component of amorphisation in phase-change alloys and chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2398-2401 Photoreflectance and Photoluminescence of Exciton-Polaritons in a ZnO Epilayer Grown on the a-Face of Sapphire by Radical-Source Molecular-Beam Epitaxy. <i>Physica Status Solidi A</i> , 2002 , 192, 171-17	21.8 4.9 4.9 3.9	7 7 7 7 7

(2009-1989)

126	Molecular Dynamics Simulations of Low-Energy Ion/Surface Interactions During Vapor Phase Crystal Growth: 10 eV Si Incident on Si(001)21. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 157, 259		7	
125	In-situRaman Scattering Spectroscopy for a Super Resolution Optical Disk during Readout. <i>Applied Physics Express</i> , 2, 082402	2.4	7	
124	Ultrafast dynamics of the low frequency shear phonon in 1T?- MoTe 2. <i>Applied Physics Letters</i> , 2020 , 116, 093103	3.4	6	
123	Resistive switching characteristics of interfacial phase-change memory at elevated temperature. Japanese Journal of Applied Physics, 2018, 57, 04FE06	1.4	6	
122	Hard x-ray photoelectron spectroscopy study of Ge2Sb2Te5; as-deposited amorphous, crystalline, and laser-reamorphized. <i>Applied Physics Letters</i> , 2014 , 104, 061909	3.4	6	
121	Comment on "New structural picture of the Ge2Sb2Te5 phase-change alloy". <i>Physical Review Letters</i> , 2012 , 108, 239603; author reply 239602	7.4	6	
120	Structural changes of CIGS during deposition investigated by spectroscopic light scattering: A study on Ga concentration and Se pressure. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 3377-3384	6.4	6	
119	Deposition of Ge1-xCxAlloy on Si by Combined Low-Energy Ion Beam and Molecular Beam Epitaxial Method. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 3459-3465	1.4	6	
118	Terahertz generation measurements of multilayered GeTe-SbTe phase change materials. <i>Optics Letters</i> , 2019 , 44, 1355-1358	3	6	
117	Insights into the physics and chemistry of chalcogenides obtained from x-ray absorption spectroscopy. <i>Semiconductor Science and Technology</i> , 2017 , 32, 123003	1.8	6	
116	Dimensional transformation of chemical bonding during crystallization in a layered chalcogenide material. <i>Scientific Reports</i> , 2021 , 11, 4782	4.9	6	
115	Soft X-ray Absorption Spectroscopy Probes OHIIIInteractions in Epoxy-Based Polymers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9622-9627	3.8	6	
114	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. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 254-259	5.7	5	
113	Systematic materials design for phase-change memory with small density changes for high-endurance non-volatile memory applications. <i>Applied Physics Express</i> , 2019 , 12, 051008	2.4	5	
112	The importance of contacts in Cu2GeTe3 phase change memory devices. <i>Journal of Applied Physics</i> , 2020 , 128, 165105	2.5	5	
111	A comparative study of the effects of sputtering deposition conditions for ZnO surface electrode layers on Cu(In,Ga)Se2 and CuGaSe2 solar cells. <i>Thin Solid Films</i> , 2017 , 633, 49-54	2.2	5	
110	Amorphous phase of GeTe-based phase-change memory alloys: Polyvalency of Ge?Te bonding and polyamorphism. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1031-1035	1.6	5	
109	Thermal conductivity of low-k films of varying porosity and direct measurements on silicon substrate. <i>Microelectronic Engineering</i> , 2009 , 86, 1009-1012	2.5	5	

108	Local Structure of AgOxThin Layers Generating Optical Near Field: an X-Ray Absorption Fine Structure Study. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 1022-1025	1.4	5
107	Electron Probe Microanalysis of Second Phases via Acceleration Voltage Dependence. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, L96-L98	1.4	5
106	The Strain Energy Densities of Hexagonal and Tetragonal Epitaxial Media. <i>Japanese Journal of Applied Physics</i> , 1995 , 34, L1616-L1619	1.4	5
105	Evidence of crystalline diamond in thin films prepared by laser ablation of hard fullerene-based carbon. <i>Journal of Applied Physics</i> , 1996 , 80, 1182-1185	2.5	5
104	Vacuum ultraviolet photolysis of supersonic free jets of SiH4. <i>Applied Surface Science</i> , 1994 , 79-80, 476-	4 6.9	5
103	Chalcogenide van der Waals superlattices: a case example of interfacial phase-change memory. Pure and Applied Chemistry, 2019 , 91, 1777-1786	2.1	4
102	Disorder in order: A study of local and global order in Ge-rich Ge?Sb?Te alloys. <i>Physica Status Solidi</i> (B): Basic Research, 2012 , 249, 1919-1924	1.3	4
101	Crystallization of Bi Doped Sb8Te2. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 03A062	1.4	4
100	Effects of strain on the growth and properties of CuInSe2 epitaxial films. <i>Journal of Crystal Growth</i> , 1997 , 175-176, 1051-1056	1.6	4
99	Read-out enhancement of super-resolution near-field structures using the pit shape. Nanotechnology, 2006 , 17, 1481-1483	3.4	4
98	Determination of crystallographic polarity of ZnO bulk crystals and epilayers. <i>Physica Status Solidi C:</i> Current Topics in Solid State Physics, 2006 , 3, 1018-1021		4
97	High-Quality Transparent Conducting Oxide Films Deposited by a Novel Ion Plating Technique. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 763, 741		4
96	Bandgap Engineering of ZnO Transparent Conducting Films. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 763, 721		4
95	Natural ordering of ZnO1⊠Sex grown by radical source MBE. <i>Journal of Crystal Growth</i> , 2003 , 251, 633-6	3 17.6	4
94	The chemical environment about Cd atoms in Cd chemical bath treated CuInSe2 and CuGaSe2. Journal of Physics and Chemistry of Solids, 2003, 64, 1733-1735	3.9	4
93	Low temperature photoluminescence from GaAs impinged by mass-separated low-energy C+ ion beams during molecular beam epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 316, 102	9	4
92	Dielectric Relaxation and Charge Transfer in Amorphous MoS2 Thin Films. <i>Physica Status Solidi (B):</i> Basic Research, 2020 , 257, 2000114	1.3	4
91	(Invited) Sputter Growth of Chalcogenide Superlattice Films for Future Phase Change Memory Applications. <i>ECS Transactions</i> , 2018 , 86, 49-54	1	4

(2021-2021)

90	Amorphous-to-Crystal Transition in Quasi-Two-Dimensional MoS2: Implications for 2D Electronic Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8834-8844	5.6	4
89	Enhancement of coherent phonon amplitude in phase-change materials by near-infrared laser irradiation. <i>Applied Physics Letters</i> , 2017 , 111, 112101	3.4	3
88	Laser-driven switching dynamics in phase change materials investigated by time-resolved X-ray absorption spectroscopy. <i>Phase Transitions</i> , 2015 , 88, 82-89	1.3	3
87	Topological Phase Buried in a Chalcogenide Superlattice Monitored by Helicity-Dependent Kerr Measurement. <i>ACS Applied Materials & Description</i> (1988) 10, 26781-26786	9.5	3
86	Pressure-Induced Phase Transitions in GeTe-Rich Ge-Sb-Te Alloys across the Rhombohedral-to-Cubic Transitions. <i>Inorganic Chemistry</i> , 2017 , 56, 7687-7693	5.1	3
85	Epitaxial Phase Change Materials: Growth and Switching of Ge2Sb2Te5 on GaSb(001). <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1160, 1		3
84	Translational Phase Domains in the Cation Sublattice of Chalcopyrite Compounds. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, L843-L845	1.4	3
83	Effect of strain and temperature on anomalously large interdiffusion in InAsP/InP heterostructures. <i>Applied Physics Letters</i> , 1997 , 70, 3410-3412	3.4	3
82	Observation of Interdiffusion in ZnO/CuInSe2 Heterostructures and its Effect on Film Properties. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 668, 1		3
81	Fermi surface dependence of the hall coefficient in quasi-2D molecular conductors. <i>Synthetic Metals</i> , 1995 , 70, 1001-1004	3.6	3
80	The Effects of KCN Etching on Cu-Rich Epitaxial CuInSe2 Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 426, 213		3
79	Strain-Induced Diffusion in Heteroepitaxially Grown CuInSe2 on GaAs Substrates. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 399, 549		3
78 	Control of Intrinsic Defects in CuInSe2Films for Device Applications. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 149	1.4	3
77	Phase-Change Memory Materials. <i>Springer Handbooks</i> , 2017 , 1-1	1.3	3
76	Polycrystalline CuGaSe2 thin film growth and photovoltaic devices fabricated on alkali-free and alkali-containing substrates. <i>Journal of Crystal Growth</i> , 2020 , 532, 125407	1.6	3
75	Dielectric relaxation in amorphous and crystalline Sb2Te3 thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 14072-14078	2.1	3
74	Chalcogenide Materials Engineering for Phase-Change Memory and Future Electronics Applications: From SbITe to BiITe. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000414	2.5	3
73	Recent developments concerning the sputter growth of chalcogenide-based layered phase-change materials. <i>Materials Science in Semiconductor Processing</i> , 2021 , 135, 106079	4.3	3

72	Structural Metastability in Chalcogenide Semiconductors: The Role of Chemical Bonding. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000138	1.3	2
71	Anomalous Phase Change in [(GeTe)2/(Sb2Te3)]20 Superlattice Observed by Coherent Phonon Spectroscopy. <i>Springer Proceedings in Physics</i> , 2015 , 199-201	0.2	2
70	Ultrafast optical manipulation of atomic motion in multilayer Ge-Sb-Te phase change materials. <i>EPJ Web of Conferences</i> , 2013 , 41, 03007	0.3	2
69	The first principle computer simulation and real device characteristics of superlattice phase-change memory 2010 ,		2
68	Short and Long-Range Order in Phase Change Materials 2009 , 149-174		2
67	Direct Observation of Nitrogen Location in Molecular Beam Epitaxy Grown Nitrogen-Doped ZnO. <i>AIP Conference Proceedings</i> , 2007 ,	Ο	2
66	Understanding Structural Changes in Phase Change Memory Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 918, 1		2
65	Localized Light Focusing and Super Resolution Readout via Chalcogenide Thin Film. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 918, 1		2
64	Improvement in the aspect ratio of fabricated minute dots by the volume change thermal lithography technique. <i>Microelectronic Engineering</i> , 2005 , 78-79, 359-363	2.5	2
63	Structural changes of CuGaSe2 films during the three-stage process observed by spectroscopic light scattering. <i>Thin Solid Films</i> , 2005 , 480-481, 367-372	2.2	2
62	Development of a geometrical evaluation apparatus for ultrahigh 100 GB optical disk masters. <i>Review of Scientific Instruments</i> , 2005 , 76, 083706	1.7	2
61	Far-infrared optical conductivity of YBCO single crystal thin films from transmission and reflection spectra. <i>Journal of Physics and Chemistry of Solids</i> , 2001 , 62, 253-256	3.9	2
60	Control of Optical and Electrical Properties of ZnO Films for Photovoltaic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 668, 1		2
59	Piezoelectric photoacoustic spectra of CuInSe2 thin film grown by molecular beam epitaxy. <i>Thin Solid Films</i> , 1999 , 343-344, 591-593	2.2	2
58	Determination of the composition of strained tetragonal epilayers. <i>Applied Physics Letters</i> , 1996 , 69, 761-763	3.4	2
57	Cation sublattice stacking faults in Cu-rich chalcopyrite CuInSe2. <i>Journal of Materials Research</i> , 1996 , 11, 1398-1402	2.5	2
56	Optical characterization of 100 eV C+ ion doped GaAs. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 300, 357		2
55	Electronic Structure of Adsorbed Trimethylaluminum on Clean Si(100) Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 131, 345		2

(1996-2000)

54	A High Resolution X-ray Diffraction and TEM Study of the CuxSe Surface Phase of Cu-rich CuInSe2. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 189	1.4	2
53	Crystalline Sb2Te3: Side Surfaces and Disappearance of Dirac Cones. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000418	2.5	2
52	Investigation of the oxidation process in GeTe-based phase change alloy using Ge K-edge XANES spectroscopy. <i>Pure and Applied Chemistry</i> , 2019 , 91, 1769-1775	2.1	1
51	Effects of electric and magnetic fields on the resistive switching operation of iPCM. <i>Applied Physics Letters</i> , 2020 , 116, 201903	3.4	1
50	Photon energy dependence of Kerr rotation in GeTe/SbTe chalcogenide superlattices. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 415502	1.8	1
49	Doping of ZnO nanowires using phosphorus diffusion from a spin-on doped glass source. <i>Journal of Applied Physics</i> , 2014 , 115, 194302	2.5	1
48	Nanometer Resolution XANES Imaging ofin situ switched individual PC-RAM devices. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1563, 1		1
47	Stress Limited Scaling of Ge2Sb2Te5. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1251, 2		1
46	Optically Induced Sub-Wavelength Transient Apertures in Sb-Te Based Films. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1338, 32001		1
45	What Makes Phase-Change Chalcogenide Alloys Materials of Choice for Optical Data Storage. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 918, 5		1
44	Preparation of Cu(In1-xGax)Se2 Thin Films and Solar Cells Using a Se-radical Beam Source. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1012, 1		1
43	Nanometer-scale mechanism of phase-change optical recording as revealed by XAFS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 246, 69-74	1.2	1
42	Point Defect Changes in CuGaSe2 Induced by Gas Annealing. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 763, 5171		1
41	Estimation and Correction Procedure for the Effects of Surface Roughness on Electron Probe Microanalysis. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 5811-5812	1.4	1
40	Optical properties of high-quality CuGaSe2 epitaxial layers examined by piezoelectric photoacoustic spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , 2001 , 67, 173-178	6.4	1
39	Significant Compositional Changes and Formation of a Ga-O Phase after Oxygen-annealing of Ga-rich CuGaSe2 Films. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 668, 1		1
38	Photoluminescence investigation of Hg acceptor in GaAs. <i>Applied Physics Letters</i> , 1995 , 67, 1465-1467	3.4	1
37	Growth of Ge1-xCx Alloys on Si by Combined Low-Energy Ion Beam and Molecular Beam Epitaxy Method. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 438, 393		1

36	Effects of Hyperthermal Carbon Subimplantation Doping on the Raman Spectra of GaAs. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 316, 1011		1
35	The formation of a one-dimensional van der Waals selenium crystal from the three-dimensional amorphous phase: A spectroscopic signature of van der Waals bonding. <i>Applied Physics Letters</i> , 2022 , 120, 033103	3.4	1
34	Bond-Selective Excitation and Following Displacement of Ge Atoms in GeTe/Sb2Te3Superlattice. <i>Acta Physica Polonica A</i> , 2012 , 121, 336-339	0.6	1
33	Dielectric relaxation in the GeSb2Te4 phase-change material 2020 ,		1
32	Role of the Cu-Deficient Interface in Cu(In,Ga)Se2 Thin-Film Photovoltaics with Alkali-Metal Doping. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
31	Electric Fields and Interfacial Phase-Change Memory Structures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000412	2.5	1
30	Ultrafast scattering dynamics of coherent phonons in Bi1 \blacksquare Sb x in the Weyl semimetal phase. <i>New Journal of Physics</i> , 2021 , 23, 023034	2.9	1
29	Understanding the low resistivity of the amorphous phase of Cr2Ge2Te6 phase-change material: Experimental evidence for the key role of Cr clusters. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
28	Coherent gigahertz phonons in Geßbllelphase-change materials. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 485402	1.8	0
27	Reconfiguration of van der Waals Gaps as the Key to Switching in GeTe/Sb2Te3 Superlattices. <i>MRS Advances</i> , 2018 , 3, 3413-3418	0.7	O
26	Evolution of the local structure surrounding nitrogen atoms upon the amorphous to crystalline phase transition in nitrogen-doped Cr2Ge2Te6 phase-change material. <i>Applied Surface Science</i> , 2021 , 556, 149760	6.7	0
25	Crystallization of Ge2Sb2Te5 under high hydrostatic pressures: Differences in nanoscale atomic ordering in as-deposited and pressure-induced amorphous phases. <i>Journal of Alloys and Compounds</i> , 2021 , 874, 159980	5.7	O
24	Polymorphism of CdTe in the Few-Monolayer Limit. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100358	2.5	0
23	Transient Fano Resonance in topological insulators observed by coherent phonon spectroscopy. <i>EPJ Web of Conferences</i> , 2019 , 205, 04021	0.3	
22	Polarization Processes in Thin Layers of Amorphous MoS2 Obtained by RF Magnetron Sputtering. <i>Semiconductors</i> , 2020 , 54, 558-562	0.7	
21	Structural and Dielectric Study of Thin Amorphous Layers of the Geßblle System Prepared by RF Magnetron Sputtering. <i>Semiconductors</i> , 2020 , 54, 201-204	0.7	
20	The role of vacancies in the pressure amorphisation phenomenon observed in Ge-Sb-Te phase change alloys. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1251, 10		
19	Nanometer Resolution XANES Imaging of Individual PC-RAM Devices. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1431, 26		

18	Piezoelectric Photoacoustic Spectra In CuGaSe2 Thin Films Grown by Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 485, 151	
17	In-Situ Surface Composition Measurements of CuGaSe2 Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 485, 145	
16	Formalistic description of multislice calculation method. <i>Microscopy Research and Technique</i> , 1998 , 40, 152-61	1.8
15	Large Optical Transitions in Rewritable Digital Versatile Discs: An Interlayer Atomic Zipper in a SbTe Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1072, 1	
14	Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated	2
13	Equipment, 2006, 559, 731-733 Photoluminescence recombination centers in ZnO. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 1026-1029	
12	Thermal processing induced structural changes in ZnO films grown on (11&2macr;0) sapphire substrates using molecular beam epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 868-871	
11	An XAFS Study of Amorphous Crystalline Phase Transitions along the GeTe-Sb2Te3 Pseudobinary Tie Line 2005 , WC4	
10	Far-infrared optical conductivity of YBa2Cu3O7 III hin films. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 2197-2200	3
9	Growth of Ge1NCx, Alloys on Si by Combined Low-Energy Ion Beam and Molecular Beam Epitaxy Method. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 439, 233	
8	Structural and Surface Morphology Changes in CuInSe2 Thin Films as a Function of Cu/In Ratio. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 441, 9	
7	Defect Structure of Cu-Rich and In-Rich Chalcopyrite CuInSe2 Films Grown on GaAS. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 399, 467	
6	Disappearance of the surface Cu-Se second phase during post-growth annealing of CuInSe2 epitaxial films grown under excess Cu-flux conditions. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 205	.·4
5	Photoluminescence investigation of a new emission formed in Mn+ implanted ultra-pure GaAs grown by MBE 1994 , 373-376	
4	Ultrafast Lattice Dynamics of Phase-Change Materials Monitored by a Pump-Pump-Probe Technique. <i>Springer Proceedings in Physics</i> , 2015 , 210-213).2
3	Phase Change Materials for Optical Disc and Display Applications 2021 , 681-711	
2	All-Optical Detection of Periodic Structure of Chalcogenide Superlattice Using Coherent Folded Acoustic Phonons. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800246	<u>5</u>
1	Phase-Change Alloys: Structural Aspects 2021 , 323-339	