

Paul Fons

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

323
papers

9,338
citations

49
h-index

85
g-index

347
ext. papers

10,032
ext. citations

3.5
avg, IF

5.82
L-index

#	Paper	IF	Citations
323	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
322	Dimensional transformation of chemical bonding during crystallization in a layered chalcogenide material. <i>Scientific Reports</i> , 2021 , 11, 4782	4.9	6
321	Dielectric relaxation in amorphous and crystalline Sb ₂ Te ₃ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 14072-14078	2.1	3
320	Role of the Cu-Deficient Interface in Cu(In,Ga)Se ₂ Thin-Film Photovoltaics with Alkali-Metal Doping. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
319	Electric Fields and Interfacial Phase-Change Memory Structures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000412	2.5	1
318	Chalcogenide Materials Engineering for Phase-Change Memory and Future Electronics Applications: From Sb ₂ Te ₃ to Bi ₂ Te ₃ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000414	2.5	3
317	Phase Change Materials for Optical Disc and Display Applications 2021 , 681-711		
316	Ultrafast scattering dynamics of coherent phonons in Bi _{1-x} Sb _x in the Weyl semimetal phase. <i>New Journal of Physics</i> , 2021 , 23, 023034	2.9	1
315	Understanding the low resistivity of the amorphous phase of Cr ₂ Ge ₂ Te ₆ phase-change material: Experimental evidence for the key role of Cr clusters. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
314	Evolution of the local structure surrounding nitrogen atoms upon the amorphous to crystalline phase transition in nitrogen-doped Cr ₂ Ge ₂ Te ₆ phase-change material. <i>Applied Surface Science</i> , 2021 , 556, 149760	6.7	0
313	Crystallization of Ge ₂ Sb ₂ Te ₅ 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	0
312	Polymorphism of CdTe in the Few-Monolayer Limit. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100358	2.5	0
311	Amorphous-to-Crystal Transition in Quasi-Two-Dimensional MoS ₂ : Implications for 2D Electronic Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8834-8844	5.6	4
310	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
309	Phase-Change Alloys: Structural Aspects 2021 , 323-339		
308	Crystalline Sb ₂ Te ₃ : Side Surfaces and Disappearance of Dirac Cones. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000418	2.5	2
307	The importance of contacts in Cu ₂ GeTe ₃ phase change memory devices. <i>Journal of Applied Physics</i> , 2020 , 128, 165105	2.5	5

306	Effects of electric and magnetic fields on the resistive switching operation of iPCM. <i>Applied Physics Letters</i> , 2020 , 116, 201903	3.4	1
305	Lithium-Doping Effects in Cu(In,Ga)Se Thin-Film and Photovoltaic Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25058-25065	9.5	10
304	Polarization Processes in Thin Layers of Amorphous MoS ₂ Obtained by RF Magnetron Sputtering. <i>Semiconductors</i> , 2020 , 54, 558-562	0.7	
303	Structural Metastability in Chalcogenide Semiconductors: The Role of Chemical Bonding. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000138	1.3	2
302	Structural and Dielectric Study of Thin Amorphous Layers of the Ge ₂ Sb ₂ Te ₅ System Prepared by RF Magnetron Sputtering. <i>Semiconductors</i> , 2020 , 54, 201-204	0.7	
301	Ultrafast dynamics of the low frequency shear phonon in 1T'-MoTe ₂ . <i>Applied Physics Letters</i> , 2020 , 116, 093103	3.4	6
300	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
299	Dielectric relaxation in the GeSb ₂ Te ₄ phase-change material 2020 ,		1
298	Polycrystalline CuGaSe ₂ 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
297	Dielectric Relaxation and Charge Transfer in Amorphous MoS ₂ Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000114	1.3	4
296	Soft X-ray Absorption Spectroscopy Probes OH Interactions in Epoxy-Based Polymers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9622-9627	3.8	6
295	Terahertz spectroscopic characterization of Ge ₂ Sb ₂ Te ₅ phase change materials for photonics applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8209-8215	7.1	12
294	Transient Fano Resonance in topological insulators observed by coherent phonon spectroscopy. <i>EPJ Web of Conferences</i> , 2019 , 205, 04021	0.3	
293	High-Speed Bipolar Switching of Sputtered Ge ₂ Te/Sb ₂ Te Superlattice iPCM with Enhanced Cyclability. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900105	2.5	12
292	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
291	Chalcogenide van der Waals superlattices: a case example of interfacial phase-change memory. <i>Pure and Applied Chemistry</i> , 2019 , 91, 1777-1786	2.1	4
290	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
289	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

288	Photon energy dependence of Kerr rotation in GeTe/SbTe chalcogenide superlattices. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 415502	1.8	1
287	Similarities and Critical Differences in Heavy Alkali-Metal Rubidium and Cesium Effects on Chalcopyrite Cu(In,Ga)Se ₂ Thin-Film Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17757-17764	3.8	28
286	Cr-Triggered Local Structural Change in CrGeTe Phase Change Material. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43320-43329	9.5	13
285	Terahertz generation measurements of multilayered GeTe-SbTe phase change materials. <i>Optics Letters</i> , 2019 , 44, 1355-1358	3	6
284	Resistive switching characteristics of interfacial phase-change memory at elevated temperature. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 04FE06	1.4	6
283	Coherent Dirac plasmons in topological insulators. <i>Physical Review B</i> , 2018 , 97,	3.3	7
282	Si-Doped Cu(In,Ga)Se ₂ Photovoltaic Devices with Energy Conversion Efficiencies Exceeding 16.5% without a Buffer Layer. <i>Advanced Energy Materials</i> , 2018 , 8, 1702391	21.8	7
281	Understanding the fast phase-change mechanism of tetrahedrally bonded Cu ₂ GeTe ₃ : Comprehensive analyses of electronic structure and transport phenomena. <i>Physical Review B</i> , 2018 , 97,	3.3	9
280	A cascading nonlinear magneto-optical effect in topological insulators. <i>Scientific Reports</i> , 2018 , 8, 3908	4.9	7
279	Topological Phase Buried in a Chalcogenide Superlattice Monitored by Helicity-Dependent Kerr Measurement. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26781-26786	9.5	3
278	Effects of RbF postdeposition treatment and heat-light soaking on the metastable acceptor activation of CuInSe ₂ thin film photovoltaic devices. <i>Applied Physics Letters</i> , 2018 , 113, 063901	3.4	19
277	(Invited) Sputter Growth of Chalcogenide Superlattice Films for Future Phase Change Memory Applications. <i>ECS Transactions</i> , 2018 , 86, 49-54	1	4
276	Zener Tunneling Breakdown in Phase-Change Materials Revealed by Intense Terahertz Pulses. <i>Physical Review Letters</i> , 2018 , 121, 165702	7.4	13
275	Reconfiguration of van der Waals Gaps as the Key to Switching in GeTe/Sb ₂ Te ₃ Superlattices. <i>MRS Advances</i> , 2018 , 3, 3413-3418	0.7	0
274	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	2.5	
273	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
272	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
271	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

270	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
269	Si-Doping Effects in Cu(In,Ga)Se Thin Films and Applications for Simplified Structure High-Efficiency Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31119-31128	9.5	11
268	A Magnetoresistance Induced by a Nonzero Berry Phase in GeTe/Sb ₂ Te ₃ Chalcogenide Superlattices. <i>Advanced Functional Materials</i> , 2017 , 27, 1702243	15.6	22
267	Electronic Structure of Transition-Metal Based Cu ₂ GeTe ₃ Phase Change Material: Revealing the Key Role of Cu d Electrons. <i>Chemistry of Materials</i> , 2017 , 29, 7440-7449	9.6	18
266	Local structure of the crystalline and amorphous states of Ga ₂ Te ₃ 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
265	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
264	Manipulating the Bulk Band Structure of Artificially Constructed van der Waals Chalcogenide Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23918-23925	9.5	15
263	A comparative study of the effects of sputtering deposition conditions for ZnO surface electrode layers on Cu(In,Ga)Se ₂ and CuGaSe ₂ solar cells. <i>Thin Solid Films</i> , 2017 , 633, 49-54	2.2	5
262	Strain engineering of atomic and electronic structures of few-monolayer-thick GaN. <i>Physical Review Materials</i> , 2017 , 1,	3.2	15
261	Phase-Change Memory Materials. <i>Springer Handbooks</i> , 2017 , 1-1	1.3	3
260	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
259	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	4.9	7
258	Sub-nanometre resolution of atomic motion during electronic excitation in phase-change materials. <i>Scientific Reports</i> , 2016 , 6, 20633	4.9	22
257	Instability and Spontaneous Reconstruction of Few-Monolayer Thick GaN Graphitic Structures. <i>Nano Letters</i> , 2016 , 16, 4849-56	11.5	39
256	Interface oxygen and heat sensitivity of Cu(In,Ga)Se ₂ and CuGaSe ₂ solar cells. <i>Applied Physics Letters</i> , 2016 , 108, 203902	3.4	9
255	A two-step process for growth of highly oriented Sb ₂ Te ₃ using sputtering. <i>AIP Advances</i> , 2016 , 6, 045220.5	2.5	37
254	Electronic excitation-induced semiconductor-to-metal transition in monolayer MoTe ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	37
253	Enhanced Sb ₂ S ₃ crystallisation by electric field induced silver doping. <i>Thin Solid Films</i> , 2016 , 616, 80-85	2.2	11

252	Giant multiferroic effects in topological GeTe-SbTe superlattices. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 014402	7.1	65
251	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
250	Femtosecond structural transformation of phase-change materials far from equilibrium monitored by coherent phonons. <i>Nature Communications</i> , 2015 , 6, 8367	17.4	46
249	Local structure of epitaxial GeTe and Ge ₂ Sb ₂ Te ₅ 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
248	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
247	Understanding Phase-Change Memory Alloys from a Chemical Perspective. <i>Scientific Reports</i> , 2015 , 5, 13698	4.9	41
246	Anomalous Phase Change in [(GeTe) ₂ /(Sb ₂ Te ₃)] ₂₀ Superlattice Observed by Coherent Phonon Spectroscopy. <i>Springer Proceedings in Physics</i> , 2015 , 199-201	0.2	2
245	Coherent gigahertz phonons in Ge ₂ Sb ₂ Te ₅ phase-change materials. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 485402	1.8	0
244	Ultrafast Lattice Dynamics of Phase-Change Materials Monitored by a Pump-Pump-Probe Technique. <i>Springer Proceedings in Physics</i> , 2015 , 210-213	0.2	
243	Mirror-symmetric magneto-optical Kerr rotation using visible light in [(GeTe) ₂ (Sb ₂ Te ₃) ₁] _n topological superlattices. <i>Scientific Reports</i> , 2014 , 4, 5727	4.9	51
242	Structural tuning of wide-gap chalcopyrite CuGaSe ₂ thin films and highly efficient solar cells: differences from narrow-gap Cu(In,Ga)Se ₂ . <i>Progress in Photovoltaics: Research and Applications</i> , 2014 , 22, 821-829	6.8	54
241	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
240	Buried p-n junction formation in CuGaSe ₂ thin-film solar cells. <i>Applied Physics Letters</i> , 2014 , 104, 031606	3.4	26
239	Study of band inversion in the Pb _x Sn _{1-x} Te class of topological crystalline insulators using x-ray absorption spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 475502	1.8	8
238	Ferroelectric switching in epitaxial GeTe films. <i>APL Materials</i> , 2014 , 2, 066101	5.7	53
237	Excitation-Assisted Disorder of GeTe and Related Solids with Resonant Bonding. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10248-10253	3.8	25
236	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
235	Interfacial alkali diffusion control in chalcopyrite thin-film solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14123-30	9.5	21

234	Coherent phonon study of (GeTe) _l (Sb ₂ Te ₃) _m interfacial phase change memory materials. <i>Applied Physics Letters</i> , 2014 , 105, 151902	3.4	14
233	Hard x-ray photoelectron spectroscopy study of Ge ₂ Sb ₂ Te ₅ ; as-deposited amorphous, crystalline, and laser-reamorphized. <i>Applied Physics Letters</i> , 2014 , 104, 061909	3.4	6
232	Ge L3-edge x-ray absorption near-edge structure study of structural changes accompanying conductivity drift in the amorphous phase of Ge ₂ Sb ₂ Te ₅ . <i>Journal of Applied Physics</i> , 2014 , 115, 173501	2.5	28
231	Picosecond strain dynamics in Ge ₂ Sb ₂ Te ₅ monitored by time-resolved x-ray diffraction. <i>Physical Review B</i> , 2014 , 90,	3.3	13
230	Ab-initio calculations and structural studies of (SiTe) ₂ (Sb ₂ Te ₃) _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
229	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
228	Ferroelectric Order Control of the Dirac-Semimetal Phase in GeTe-Sb ₂ Te ₃ Superlattices. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300027	4.6	133
227	Texture and morphology variations in (In,Ga) ₂ Se ₃ and Cu(In,Ga)Se ₂ thin films grown with various Se source conditions. <i>Progress in Photovoltaics: Research and Applications</i> , 2013 , 21, 544-553	6.8	31
226	Impact of a binary Ga ₂ Se ₃ precursor on ternary CuGaSe ₂ thin-film and solar cell device properties. <i>Applied Physics Letters</i> , 2013 , 103, 143903	3.4	18
225	Local instability of p-type bonding makes amorphous GeTe a lone-pair semiconductor. <i>Physical Review B</i> , 2013 , 87,	3.3	28
224	Vacancy-mediated three-center four-electron bonds in GeTe-Sb ₂ Te ₃ phase-change memory alloys. <i>Physical Review B</i> , 2013 , 87,	3.3	59
223	Nanometer Resolution XANES Imaging of in situ switched individual PC-RAM devices. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1563, 1		1
222	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
221	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
220	A hard X-ray nanospectroscopy station at SPring-8 BL39XU. <i>Journal of Physics: Conference Series</i> , 2013 , 430, 012017	0.3	21
219	A reconsideration of the thermodynamics of phase-change switching. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 1932-1938	1.3	14
218	Epitaxial phase-change materials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 415-417	2.5	29
217	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

216	Disorder in order: A study of local and global order in Ge-rich Ge ₂ Sb ₂ Te alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 1919-1924	1.3	4
215	Crystalline GeTe-based phase-change alloys: Disorder in order. <i>Physical Review B</i> , 2012 , 86,	3.3	23
214	Athermal component of amorphisation in phase-change alloys and chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2398-2401	3.9	7
213	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
212	Comment on "New structural picture of the Ge ₂ Sb ₂ Te ₅ phase-change alloy". <i>Physical Review Letters</i> , 2012 , 108, 239603; author reply 239602	7.4	6
211	Nanometer Resolution XANES Imaging of Individual PC-RAM Devices. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1431, 26		
210	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
209	Enhanced crystallization of GeTe from an Sb ₂ Te ₃ template. <i>Applied Physics Letters</i> , 2012 , 100, 021911	3.4	48
208	Local structure of nitrogen in N-doped amorphous and crystalline GeTe. <i>Applied Physics Letters</i> , 2012 , 100, 061910	3.4	22
207	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
206	Bond-Selective Excitation and Following Displacement of Ge Atoms in GeTe/Sb ₂ Te ₃ Superlattice. <i>Acta Physica Polonica A</i> , 2012 , 121, 336-339	0.6	1
205	Interfacial phase-change memory. <i>Nature Nanotechnology</i> , 2011 , 6, 501-5	28.7	528
204	Distortion-triggered loss of long-range order in solids with bonding energy hierarchy. <i>Nature Chemistry</i> , 2011 , 3, 311-6	17.6	158
203	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
202	The order-disorder transition in GeTe: Views from different length-scales. <i>Applied Physics Letters</i> , 2011 , 99, 231907	3.4	55
201	Effect of doping on global and local order in crystalline GeTe. <i>Applied Physics Letters</i> , 2011 , 98, 231907	3.4	19
200	Local atomic order of crystalline Ge ₈ Sb ₂ Te ₁₁ across the ferroelectric to paraelectric transition: The role of vacancies and static disorder. <i>Physical Review B</i> , 2011 , 84,	3.3	16
199	Electrical-field induced giant magnetoresistivity in (non-magnetic) phase change films. <i>Applied Physics Letters</i> , 2011 , 99, 152105	3.4	66

198	Intrinsic complexity of the melt-quenched amorphous Ge ₂ Sb ₂ Te ₅ memory alloy. <i>Physical Review B</i> , 2011 , 83,	3.3	100
197	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
196	Optically Induced Sub-Wavelength Transient Apertures in Sb-Te Based Films. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1338, 32001		1
195	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		
194	Stress Limited Scaling of Ge ₂ Sb ₂ Te ₅ . <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1251, 2		1
193	Amorphous InSb: Longer bonds yet higher density. <i>Journal of Applied Physics</i> , 2010 , 108, 023506	2.5	12
192	Non-melting super-resolution near-field apertures in SbTe alloys. <i>Applied Physics Letters</i> , 2010 , 97, 161904	3.4	27
191	The first principle computer simulation and real device characteristics of superlattice phase-change memory 2010 ,		2
190	Photoassisted amorphization of the phase-change memory alloy Ge ₂ Sb ₂ Te ₅ . <i>Physical Review B</i> , 2010 , 82,	3.3	69
189	Toward the ultimate limit of phase change in Ge ₂ (Sb ₂)Te ₅ . <i>Nano Letters</i> , 2010 , 10, 414-9	11.5	201
188	Phase transition in crystalline GeTe: Pitfalls of averaging effects. <i>Physical Review B</i> , 2010 , 82,	3.3	83
187	Development of high-efficiency flexible Cu(In,Ga)Se ₂ 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
186	Epitaxy of Ge ₂ Sb ₂ Te ₅ phase-change memory alloys. <i>Applied Physics Letters</i> , 2009 , 94, 041902	3.4	32
185	Flexible Cu(In,Ga)Se ₂ solar cells fabricated using alkali-silicate glass thin layers as an alkali source material. <i>Journal of Renewable and Sustainable Energy</i> , 2009 , 1, 013102	2.5	32
184	Epitaxial Phase Change Materials: Growth and Switching of Ge ₂ Sb ₂ Te ₅ on GaSb(001). <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1160, 1		3
183	Liquid Ge ₂ Sb ₂ Te ₅ studied by extended x-ray absorption. <i>Applied Physics Letters</i> , 2009 , 95, 241902	3.4	24
182	Crystallization of Bi Doped Sb ₈ Te ₂ . <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 03A062	1.4	4
181	What is the Origin of Activation Energy in Phase-Change Film?. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 03A053	1.4	39

180	Local structure of amorphous Ge ₂ Sb ₂ Te alloys: Ge umbrella flip vs. DFT simulations. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1826-1830	1.3	12
179	Large grain Cu(In,Ga)Se ₂ thin film growth using a Se-radical beam source. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 792-796	6.4	21
178	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
177	Band profiles of ZnMgO/ZnO heterostructures confirmed by Kelvin probe force microscopy. <i>Applied Physics Letters</i> , 2009 , 94, 242107	3.4	29
176	A sensitive multilayered structure suitable for biosensing on the BioDVD platform. <i>Analytical Chemistry</i> , 2009 , 81, 4963-70	7.8	37
175	Initial structure memory of pressure-induced changes in the phase-change memory alloy Ge ₂ Sb ₂ Te ₅ . <i>Physical Review Letters</i> , 2009 , 103, 115502	7.4	47
174	Na-induced variations in the structural, optical, and electrical properties of Cu(In,Ga)Se ₂ thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 034908	2.5	126
173	Proposal of a grating-based optical reflection switch using phase change materials. <i>Optics Express</i> , 2009 , 17, 16947-56	3.3	8
172	Short and Long-Range Order in Phase Change Materials 2009 , 149-174		2
171	Alkali incorporation control in Cu(In,Ga)Se ₂ 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
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