

POSTER PRESENTATIONS

MONDAY 18-Sep-23		13:00-15:20	
Popek	Piotr	Peierls Distortion in Ultra-Confined GeTe and Sb Thin Films	P 1
Stepanov	Roman	Pressure-induced reconfiguration of the van der Waals gap in two-dimensional chalcogenides: an ab-initio study	P 2
De Simone	Sara	Structural and vibrational properties of Ge-rich GeSb ₂ Te ₅ layers grown on Si(100)	P 3
Tan	Jieling	Synthesis and characterizations of Ge-Sb-O thin films	P 4
Wang	Xiaozhe	Spin glass behavior in amorphous Cr ₂ Ge ₂ Te ₆ phase-change alloy	P 5
Sun	Suyang	Structural and optical properties of As ₂ Te ₃	P 6
Wang	Yinli	Resistance change as a function of strain in Cr ₂ Ge ₂ Te ₆ amorphous thin film on polyimide substrate	P 7
Kim	Mihyeon	Phase change behaviors in Cr-Mn-Te thin film	P 8
Lim	Hyeonwook	Advanced interfacial phase change material: Controlling intrinsic thermal barrier with doping transition metal	P 9
Mai	Xianliang	Ge-free OTS material with weak segregation	P 10
Wredh	Simon	Multi-level Optical Switching by Amorphization in Single- and Multi- Phase Change Material Structures	P 11
Prili	Simone	Interface development in In-based PCM heterostructure	P 12
Yadav	Aakash	Investigating the polarity dependence of multi-level cell operation in conventional mushroom phase change memory cells	P 13
Jakobs	Stefan	Structural Characterization of Ge-rich Ge-Sb-Te films on Silicon and Polyimide Substrates using X-ray Diffraction	P 14
Park	Jaemin	Understanding of Ta doping effect into the Sb ₂ Te ₃ for high-speed phase change memory	P 15
Pady	Joseph	Flexible Electronics Applications of Ge-rich and Selenium Substituted Phase-change Materials in Non-volatile Memories	P 16
Diaz Fattorini	Adriano	Improved thermal stability of chalcogenide (Ge-Sb-Te) based heterostructures	P 17
Grisolia	J�r�mie	AC dynamic conductivity of GST cells in the RESET state revealed by impedance spectroscopy	P 18
Karam	Lara	Chalcogenide materials integration in silicon photonics for on-chip stochastic computing	P 19
Song	Junchao	Enhancing the performance of integrated phase-change photonic memories using plasmonic nanoantennas	P 20
Humphreys	Euan	Investigation of diffusion effects in tuneable phase-change extraordinary optical transmission bandpass filters	P 21
Adanan	Nur Qalishah	Continuously Tuneable optical states of highly-ordered Sb ₂ Te ₃	P 22
Baratella	Dario	Unraveling the crystallization kinetics of Ge-rich GeTe phase change alloys with a machine-learned interatomic potential	P 23
Hur	Namwook	Vertically Integrated Three-Dimensional Phase-Change Memory with Heater-All-Around Configuration	P 24
Yoon	Sohui	Cryogenic Operation of Phase Change Memory	P 25
Antonelli	Renzo	Programming Characteristics in Innovative 1S1R "DPSA" Wall PCM + OTS Devices	P 26
Petrucci	Christian	Epitaxial growth and characterization of TlTe ₂ and PCMs/TlTe ₂ heterostructures	P 27
TUESDAY 19-Sep-23		12:45-15:00	
Ritarossi	Simone	Confinement Effects on the Structure of Thin Layers of Amorphous Phase-Change Materials inside Heterostructures	P 28
Righi Riva	Flavia	Interplay between structural and electronic properties in layered GeTe-rich Ge-Sb-Te stabilized by epitaxy	P 29
Mouawad	Oussama	GeSe-GeTe pseudo-binary line: an opportunity for embedded memory applications?	P 30
Zhou	Wen	Anisotropic GaTe thin-film device for reflective display	P 31
Yusuke	Miyaguchi	Interfacial phase-change memory (iPCM) deposited at room temperature -II Superlattice fabrication on 300 mm Si-wafers using two-step annealing from amorphous multilayer	P 32
Yusuke Tominego	Miyaguchi Junya	Interfacial phase-change memory (iPCM) deposited at room temperature-I A proposal for superlattice formation using two-step annealing from amorphous multilayer	P 33
Kang	Shin Young	Silicon-doped GeTe with Enhanced Weight Modulation for artificial synapses	P 34
Chen	Yuhan	Atomistic study of the configurational entropy of supercooled liquid GeTe	P 35
Schenk	Florian M	Solution-processed phase-change memory from molecular telluride inks	P 36
Manivannan	Anbarasu	Sub-threshold current evolution in GeTe phase change memory device	P 37
Shuang	Yi	Phase-change Chromium Nitride	P 38
Laprais	Capucine	Optical switch of Sb ₂ S ₃ for tunable nanophotonics	P 39
Ravsher	Taras	Evidence of Heat-Assisted Atomic Migration in GeSe Self-Selecting Memory Operated at High Current Density	P 40
Jiang	Yuyu	Reconfigurable Spoof Surface Plasmon Polariton Microwave Filters	P 41
Li	Xian-Bin	Photoinduced Ultrafast Dynamics of Local Correlated Structure in Ge ₂ Sb ₂ Te ₅	P 42
Ordan	Efrat	Crystallization dynamics probed by transient resistance in phase change memory cells	P 43
Ran	Sijia	Thermal recrystallization of Ge-rich GeSbTe based phase-change memory cells revealed by TEM	P 44
Voss	Lennart	Temperature induced volume change in GeTe-Sb ₂ Te ₃ heterostructures below the crystallization temperature	P 45
Kashem	Md Tashfiq Bin	Charge Trapping, Resistance Drift and Electronic Transport in Phase Change Memory Devices	P 46
Bychkov	Eugene	Atomic Structure and Dynamics of Unusual and Wide Gap Phase-Change Chalcogenides	P 47
Berguiga	Lotfi	Perfect absorption and ultimate phase sensitivity in optical sensor by using multi-level phase state of GeSbTe	P 48
Kwon	Yongwoo	Analysis of Pulse Shape Dependence in Phase Change Memory Switching Using Fully Transient Device Simulation	P 49
Daoudi	Oumaima	Encapsulation Effects on Ge-rich GeSbTe at High Temperature	P 50
Patil	Akash	Temperature-dependent thermal conductivity evolution of N-doped Ge-rich GeSbTe using Raman thermometry	P 51
Braid	George	Remote Thermal Sources for Switching Phase-Change Material-Based Metasurfaces	P 52
Zhou	Yuxing	Device-scale atomistic modelling of phase-change memory materials using a machine-learned interatomic potential	P 53