

Gunther Springholz

List of Publications by Year in descending order

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313
papers

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#	ARTICLE	IF	CITATIONS
1	Interaction between interface and massive states in multivalley topological heterostructures. <i>Physical Review Research</i> , 2022, 4, .	1.3	3
2	Ultrafast Thermalization Pathways of Excited Bulk and Surface States in the Ferroelectric Rashba Semiconductor GeTe. <i>Advanced Materials</i> , 2022, 34, e2200323.	11.1	3
3	Direct optical probing of ultrafast spin dynamics in a magnetic semiconductor. <i>Physical Review B</i> , 2022, 105, .	1.1	3
4	Angle-Resolved Photoemission of Topological Matter: Examples from Magnetism, Electron Correlation, and Phase Transitions. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000371.	0.7	2
5	Search for enhanced magnetism at the interface between Bi_2Te_3 and EuSe. <i>Physical Review B</i> , 2021, 103, .		
6	Structure Inversion Asymmetry and Rashba Effect in Quantum Confined Topological Crystalline Insulator Heterostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2008885.	7.8	12
7	Triple-Point Fermions in Ferroelectric GeTe. <i>Physical Review Letters</i> , 2021, 126, 206403.	2.9	12
8	Miniband engineering and topological phase transitions in topological-insulator-normal-insulator superlattices. <i>Physical Review B</i> , 2021, 103, .	1.1	5
9	Signatures of spin-phasing by mirror-symmetry breaking in weak-antilocalization magnetoconductance across the topological transition in $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$. <i>Physical Review B</i> , 2021, 103, .	1.1	7
10	$\text{Mn}_{2-x}\text{Te}_{x+4}$: A Topological Insulator with Magnetic Gap Closing at High Curie Temperatures of 45–50 K. <i>Advanced Materials</i> , 2021, 33, e2102935.	11.1	70
11	Photoelectromagnetic Effect Induced by Terahertz Laser Radiation in Topological Crystalline Insulators $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$. <i>Nanomaterials</i> , 2021, 11, 3207.	1.9	3
12	Gettering and Defect Engineering in Semiconductor Technology (GADEST 2021). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100728.	0.8	1
13	Femtosecond phononic coupling to both spins and charges in a room-temperature antiferromagnetic semiconductor. <i>Physical Review B</i> , 2021, 104, .	1.1	10
14	SIMS accurate determination of matrix composition of topological crystalline insulator material $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$. <i>Surface and Interface Analysis</i> , 2020, 52, 71-75.	0.8	3
15	Landau level spectroscopy of Bi_2Te_3 . <i>Physical Review B</i> , 2020, 102, .		
16	Epitaxial Metal Halide Perovskites by Inkjet-Printing on Various Substrates. <i>Advanced Functional Materials</i> , 2020, 30, 2004612.	7.8	21
17	Entropy-controlled fully reversible nanostructure formation of Ge on miscut vicinal Si(001) surfaces. <i>Physical Review B</i> , 2020, 102, .	1.1	3
18	Exchange-mediated magnetic blue-shift of the band-gap energy in the antiferromagnetic semiconductor MnTe. <i>New Journal of Physics</i> , 2020, 22, 083029.	1.2	15

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19	Step-edge assisted large scale FeSe monolayer growth on epitaxial Bi ₂ Se ₃ thin films. New Journal of Physics, 2020, 22, 073050.	1.2	8
20	Fully spin-polarized bulk states in ferroelectric GeTe. Physical Review Research, 2020, 2, .	1.3	13
21	Unveiling the complete dispersion of the giant Rashba split surface states of ferroelectric $\hat{\Gamma}_{\pm}$ -GeTe by alkali doping. Physical Review Research, 2020, 2, .	1.1	10
22	Influence of an Anomalous Temperature Dependence of the Phase Coherence Length on the Conductivity of Magnetic Topological Insulators. Physical Review Letters, 2019, 123, 036406.	2.9	13
23	Ferroelectric Self-Poling in GeTe Films and Crystals. Crystals, 2019, 9, 335.	1.0	22
24	Ferromagnetic phase transition in topological crystalline insulator thin films: Interplay of anomalous Hall angle and magnetic anisotropy. Physical Review B, 2019, 100, .	1.1	11
25	Converting Faraday rotation into magnetization in europium chalcogenides. Journal of Applied Physics, 2019, 126, .	1.1	8
26	Absorption edge, urbach tail, and electron-phonon interactions in topological insulator Bi ₂ Se ₃ and band insulator (Bi _{0.89} In _{0.11}) ₂ Se ₃ . Applied Physics Letters, 2019, 114, .	1.5	10
27	Large magnetic gap at the Dirac point in Bi ₂ Te ₃ /MnBi ₂ Te ₄ heterostructures. Nature, 2019, 576, 423-428.	13.7	189
28	Spin-resolved electronic structure of ferroelectric $\hat{\Gamma}_{\pm}$ -GeTe and multiferroic Ge $\hat{1}\hat{a}^{\sim}$ Mn Te. Journal of Physics and Chemistry of Solids, 2019, 128, 237-244.	1.9	10
29	Pb _{1-x} Sn _x Se: a new tunable topological platform with terahertz band gap. , 2019, , .		0
30	Local moment formation and magnetic coupling of Mn dopants in Bi ₂ Se ₃ : A low-temperature ferromagnetic resonance study. Physica B: Condensed Matter, 2018, 536, 604-613.	1.3	4
31	Dirac parameters and topological phase diagram of $\hat{\Gamma}_{\pm}$ -GeTe. Physical Review Research, 2018, 2, 023115.	1.1	27
32	Molecular Beam Epitaxy of IV \hat{a} VI Semiconductors. , 2018, , 211-276.		5
33	Avoided level crossing at the magnetic field induced topological phase transition due to spin-orbital mixing. Physical Review B, 2018, 98, .	1.1	9
34	$\hat{\Gamma}_{\pm}$ -GeTe and (GeMn)Te semiconductors: A new paradigm for spintronics. AIP Conference Proceedings, 2018, , .	0.3	5
35	Ultrafast Light Switching of Ferromagnetism in EuSe. Physical Review Letters, 2018, 120, 217203.	2.9	9
36	Tunable Dirac interface states in topological superlattices. Physical Review B, 2018, 98, .	1.1	20

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37	<i>Operando</i> Imaging of All-Electric Spin Texture Manipulation in Ferroelectric and Multiferroic Rashba Semiconductors. <i>Physical Review X</i> , 2018, 8, .	2.8	30
38	Structural disorder of natural Bi_2Te_3 superlattices grown by molecular beam epitaxy. <i>Physical Review Materials</i> , 2018, 2, .	0.9	10
39	High-resolution x-ray diffraction of epitaxial bismuth chalcogenide topological insulator layers. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2017, 8, 015006.	0.7	7
40	Nucleation and formation of Au-catalyzed ZnTe nanowires on (0 0 1) GaAs by MBE: From planar to out-of-plane growth. <i>Journal of Crystal Growth</i> , 2017, 477, 118-122.	0.7	3
41	Twin domain imaging in topological insulator Bi_2Te_3 and Bi_2Se_3 epitaxial thin films by scanning X-ray nanobeam microscopy and electron backscatter diffraction. <i>Journal of Applied Crystallography</i> , 2017, 50, 369-377.	1.9	28
42	Magneto-optical evidence of the topological phase transition in $(111)\text{-Pb}_{1-x}\text{Sn}_x\text{Te}$. <i>Journal of Physics: Conference Series</i> , 2017, 864, 012038.	0.3	3
43	Topological quantum phase transition from mirror to time reversal symmetry protected topological insulator. <i>Nature Communications</i> , 2017, 8, 968.	5.8	31
44	Negative Longitudinal Magnetoresistance from the Anomalous $N=0$ Landau Level in Topological Materials. <i>Physical Review Letters</i> , 2017, 119, 106602.	2.9	42
45	Magneto-optical determination of a topological index. <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	23
46	Magnetic anisotropy in antiferromagnetic hexagonal MnTe. <i>Physical Review B</i> , 2017, 96, .	1.1	49
47	Giant Rashba Splitting in $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ (111) Topological Crystalline Insulator Films Controlled by Bi Doping in the Bulk. <i>Advanced Materials</i> , 2017, 29, 1604185.	11.1	44
48	Interband absorption edge in the topological insulators Bi_2Te_3 and Bi_2Se_3 . <i>Physical Review B</i> , 2017, 96, .	2.1	25
49	Dirac Landau Level Spectroscopy in $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$ and $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ across the Topological Phase Transition: A Review. <i>Crystals</i> , 2017, 7, 29.	1.0	15
50	Massive and massless Dirac fermions in $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ topological crystalline insulator probed by magneto-optical absorption. <i>Scientific Reports</i> , 2016, 6, 20323.	1.6	48
51	Lattice vibrations and electrical transport in $(\text{Bi}_{1-x}\text{In}_x)_2\text{Se}_3$ films. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	4
52	Topological insulator homojunctions including magnetic layers: The example of n-p type (n-QLs) $\text{Tj ETQq0 0 0 rgBT / Qverlock 10 Tf 50 14}$	1.5	5
53	Ferroelectric phase transitions in multiferroic $\text{Ge}_{1-x}\text{Mn}_x\text{Te}$ driven by local lattice distortions. <i>Physical Review B</i> , 2016, 94, .	1.1	13
54	Disentangling bulk and surface Rashba effects in ferroelectric $\hat{\Gamma}_6^-$ - GeTe . <i>Physical Review B</i> , 2016, 94, .	1.1	74

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55	Multiple-stable anisotropic magnetoresistance memory in antiferromagnetic MnTe. Nature Communications, 2016, 7, 11623.	5.8	169
56	Entanglement and manipulation of the magnetic and spin-orbit order in multiferroic Rashba semiconductors. Nature Communications, 2016, 7, 13071.	5.8	68
57	Nonmagnetic band gap at the Dirac point of the magnetic topological insulator (Bi _{1-x} Mnx) ₂ Se ₃ . Nature Communications, 2016, 7, 10559.	5.8	102
58	Magnetic and structural properties of Mn-doped Bi ₂ Se ₃ topological insulators. Physica B: Condensed Matter, 2016, 481, 262-267.	1.3	18
59	Atomic structure of Bi ₂ Te ₃ surfaces probed by photoelectron diffraction and holography. Physical Review B, 2015, 91, .		
60	Structural and electronic properties of manganese-doped Bi ₂ Te ₃ epitaxial layers. New Journal of Physics, 2015, 17, 013028.	1.2	33
61	Vertical external cavity surface emitting PbTe/CdTe quantum dot lasers for the mid-infrared spectral region. Optics Letters, 2014, 39, 6577.	1.7	10
62	Self-assembled in-plane Ge nanowires on rib-patterned Si (100) templates. Physical Review B, 2014, 90, 111401.		11
63	In-well pumped mid-infrared PbTe/CdTe quantum well vertical external cavity surface emitting lasers. Applied Physics Letters, 2014, 104, .	1.5	7
64	Band alignments and strain effects in PbTe/Sr _{1-x} Bi _x Te ₂ and PbSe/Sr _{1-x} Bi _x Te ₂ . Physical Review B, 2014, 90, .		
65	Structure and composition of bismuth telluride topological insulators grown by molecular beam epitaxy. Journal of Applied Crystallography, 2014, 47, 1889-1900.	1.9	36
66	Magnetic-Field-Induced Ferroelectric Polarization Reversal in the Multiferroic Ge _{1-x} Mn _x . Physical Review Letters, 2014, 112, 047202.	2.9	53
67	Real-time observation of nanoscale topological transitions in epitaxial PbTe/CdTe heterostructures. APL Materials, 2014, 2, 012105.	2.2	10
68	Raman and interband optical spectra of epitaxial layers of the topological insulators Bi ₂ Te ₃ and Bi ₂ Se ₃ on BaF ₂ substrates. Physica Scripta, 2014, T162, 014007.	1.2	18
69	Photoemission of Bi ₂ Te ₃ Circularly Polarized Light: Probe of Spin Polarization or Means for Spin Manipulation?. Physical Review X, 2014, 4, .	2.8	76
70	Equilibrium phase diagrams for the elongation of epitaxial quantum dots into hut-shaped clusters and quantum wires. Physical Review B, 2014, 89, .	1.1	13
71	Growth, Structure, and Electronic Properties of Epitaxial Bismuth Telluride Topological Insulator Films on BaF ₂ (111) Substrates. Crystal Growth and Design, 2013, 13, 3365-3373.	1.4	70
72	Molecular beam epitaxy of IV-VI semiconductors. , 2013, , 263-310.		7

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73	Absence of nonlocal resistance in microstructures of PbTe quantum wells. Physica Status Solidi (B): Basic Research, 2013, 250, 37-47.	0.7	10
74	Negligible Surface Reactivity of Topological Insulators Bi ₂ Se ₃ and Bi ₂ Te ₃ towards Oxygen and Water. ACS Nano, 2013, 7, 5181-5191.	7.3	118
75	Mid-IR quantum dot VECSEL. , 2013, , .		0
76	9.1 IV-VI semiconductors: General properties. , 2013, , 415-421.		3
77	9.3.4 Growth on BaF ₂ (111). , 2013, , 439-442.		0
78	9.3.8 Growth on GaAs and CdTe. , 2013, , 451-453.		0
79	9.2.2 Higher-band-gap alloys. , 2013, , 427-429.		0
80	9.8.4 Microdisk lasers. , 2013, , 556-557.		0
81	9.8.1 Mid-infrared diode lasers. , 2013, , 541-546.		0
82	9.3.1 Molecular beam epitaxy. , 2013, , 430-434.		0
83	9.9 Thermoelectric devices. , 2013, , 558-561.		0
84	9.8.2 Vertical-cavity surface-emitting lasers. , 2013, , 547-552.		0
85	9.4.3 Theoretical description of confined states. , 2013, , 466-472.		0
86	9.6.1 Growth of self-assembled lead-salt quantum dots. , 2013, , 503-506.		0
87	Time and momentum resolved resonant magnetic x-ray diffraction on EuTe. EPJ Web of Conferences, 2013, 41, 03014.	0.1	0
88	9.7.1 Structural properties. , 2013, , 527-528.		0
89	9.6.2 Ordering and stacking in quantum-dot superlattices. , 2013, , 507-513.		0
90	9.6.3 Ordering mechanisms. , 2013, , 514-520.		0

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91	9.6 Self-assembled Stranski-Krastanow quantum dots. , 2013, , 501-502.		0
92	9.3.5 Growth on IV-VI substrates. , 2013, , 443-445.		0
93	9.7.4 Electroluminescence. , 2013, , 535-537.		0
94	9.4.4 Spectroscopic investigations of IV-VI quantum-well systems. , 2013, , 473-479.		0
95	9.4.6 Transport in 2D structures. , 2013, , 493-495.		0
96	9.5.2 Transport in 1D structures. , 2013, , 498-500.		0
97	9.4.5 Specific results for different material systems. , 2013, , 480-492.		0
98	9.8 Optoelectronic device applications. , 2013, , 538-540.		0
99	9.3.9 Doping. , 2013, , 454-455.		0
100	9.4.1 Growth and material systems. , 2013, , 456-461.		0
101	9.6.4 Optical and electronic properties. , 2013, , 521-523.		0
102	9.3.7 Growth on silicon. , 2013, , 448-450.		0
103	9.2.1 Pseudo-binary IV-VI alloys. , 2013, , 425-426.		0
104	Temperature dependent band offsets in PbSe/PbEuSe quantum well heterostructures. Applied Physics Letters, 2012, 101, .	1.5	13
105	Tuning of mid-infrared emission of ternary PbSrTe/CdTe quantum dots. Applied Physics Letters, 2012, 100, 113112.	1.5	7
106	One-Dimensional to Three-Dimensional Ripple-to-Dome Transition for SiGe on Vicinal Si (1 1 10). Physical Review Letters, 2012, 109, 025505.	2.9	15
107	Optical third harmonic generation in the magnetic semiconductor EuSe. Physical Review B, 2012, 85, .	1.1	14
108	Formation of Ge Nanoripples on Vicinal Si (1110): From Stranski-Krastanow Seeds to a Perfectly Faceted Wetting Layer. Physical Review Letters, 2012, 108, 055503.	2.9	39

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109	Evaluation of Ordering in Single-Component and Binary Nanocrystal Superlattices by Analysis of Their Autocorrelation Functions. <i>ACS Nano</i> , 2011, 5, 1703-1712.	7.3	30
110	STM study of successive Ge growth on λ -stripe patterned Si (001) surfaces at different growth temperatures. <i>Applied Surface Science</i> , 2011, 257, 10465-10470.	3.1	3
111	Substantial Temperature Dependence of Transverse Electron g^* -factor in Lead Chalcogenide Multi-quantum Wells. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	0
112	Optical Probing of metamagnetic phases in epitaxial EuSe. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	0
113	Molecular beam epitaxy of single phase GeMnTe with high ferromagnetic transition temperature. <i>Journal of Crystal Growth</i> , 2011, 323, 363-367.	0.7	53
114	Ultra-steep side facets in multi-faceted SiGe/Si(001) Stranski-Krastanow islands. <i>Nanoscale Research Letters</i> , 2011, 6, 70.	3.1	44
115	Growth and characterization of mid-infrared microdisk lasers operating in continuous-wave mode up to 2Å°C. <i>Journal of Crystal Growth</i> , 2011, 323, 460-462.	0.7	3
116	Enhanced intermixing in Ge nanoprisms on groove-patterned Si(1 1 10) substrates. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	6
117	Midinfrared electroluminescence from PbTe/CdTe quantum dot light-emitting diodes. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	36
118	Self-aligned fabrication of in-plane SiGe nanowires on rib-patterned Si (001) substrates. <i>Applied Physics Letters</i> , 2011, 99, 043103.	1.5	12
119	Kinetic Monte Carlo simulation of quantum-dot nucleation and growth in PbSe/PbEuTe multilayers. <i>Journal of Physics: Conference Series</i> , 2010, 245, 012091.	0.3	0
120	In situ Control of Si/Ge Growth on Stripe-Patterned Substrates Using Reflection High-Energy Electron Diffraction and Scanning Tunneling Microscopy. <i>Nanoscale Research Letters</i> , 2010, 5, 1935-1941.	3.1	5
121	Damascene Process for Controlled Positioning of Magnetic Colloidal Nanocrystals. <i>Advanced Materials</i> , 2010, 22, 1364-1368.	11.1	8
122	Publisher's Note: Magnetic polarons in Eu-based films of magnetic semiconductors [<i>Phys. Rev. B</i> 81, 153201 (2010)]. <i>Physical Review B</i> , 2010, 81, .	1.1	0
123	Optical second harmonic generation in the centrosymmetric magnetic semiconductors EuTe and EuSe. <i>Physical Review B</i> , 2010, 81, .	1.1	20
124	Magnetic polarons in Eu-based films of magnetic semiconductors. <i>Physical Review B</i> , 2010, 81, .	1.1	24
125	Optical third-harmonic spectroscopy of the magnetic semiconductor EuTe. <i>Physical Review B</i> , 2010, 82, .	1.1	16
126	Magnetic ordering and transitions of EuSe studied by x-ray diffraction. <i>Physical Review B</i> , 2010, 81, .	1.1	9

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127	Contact superconductivity in In δ -PbTe junctions. Journal of Applied Physics, 2010, 108, 053714.	1.1	14
128	Ultrafast dynamics of antiferromagnetic order studied by femtosecond resonant soft x-ray diffraction. Applied Physics Letters, 2010, 97, 062502.	1.5	21
129	Analysis of periodic dislocation networks using x-ray diffraction and extended finite element modeling. Applied Physics Letters, 2010, 96, 131905.	1.5	16
130	Phase separation and exchange biasing in the ferromagnetic IV-VI semiconductor Ge $_{1-x}$ MnxTe. Applied Physics Letters, 2010, 97, 023101.	1.5	57
131	Near room temperature continuous-wave laser operation from type-I interband transitions at wavelengths beyond 4 μ m. Applied Physics Letters, 2010, 97, 061103.	1.5	26
132	Exchange interactions in europium monochalcogenide magnetic semiconductors and their dependence on hydrostatic strain. Physical Review B, 2010, 81, .	1.1	47
133	Kinetic Monte Carlo simulation of self-organized growth of PbSe/PbEuTe quantum dot multilayers. Physical Review B, 2009, 80, .	1.1	10
134	Lead salt microdisk lasers operating in continuous wave mode at 5.3 μ m wavelength. Applied Physics Letters, 2009, 94, 021118.	1.5	17
135	Spin-Induced Optical Second Harmonic Generation in the Centrosymmetric Magnetic Semiconductors EuTe and EuSe. Physical Review Letters, 2009, 103, 057203.	2.9	45
136	Shape transitions and island nucleation for Si/Ge molecular beam epitaxy on stripe-patterned Si (001) substrate. Physical Review B, 2009, 80, .	1.1	23
137	Type I/type II band alignment transition in strained PbSe δ -PbEuSeTe multiquantum wells. Applied Physics Letters, 2009, 95, .	1.5	17
138	PbTe and SnTe quantum dot precipitates in a CdTe matrix fabricated by ion implantation. Journal of Applied Physics, 2009, 106, .	1.1	8
139	Molecular beam epitaxy of Si/Ge nanoislands on stripe-patterned Si (001) substrates with different stripe orientations. Journal of Crystal Growth, 2009, 311, 2220-2223.	0.7	5
140	In situ scanning tunnelling microscopy investigations of Si epitaxial growth on pit-patterned Si (001) substrates. Thin Solid Films, 2008, 517, 293-296.	0.8	5
141	Size-controlled quantum dots fabricated by precipitation of epitaxially grown, immiscible semiconductor heterosystems. Journal of Physics Condensed Matter, 2008, 20, 454216.	0.7	4
142	Temperature-dependent midinfrared photoluminescence of epitaxial PbTe/CdTe quantum dots and calculation of the corresponding transition energy. Physical Review B, 2008, 78, .	1.1	50
143	X-ray scattering from periodic arrays of quantum dots. Journal of Physics Condensed Matter, 2008, 20, 454215.	0.7	0
144	Antiferromagnetic Order with Atomic Layer Resolution In EuTe(111) Films. Physical Review Letters, 2008, 101, 267202.	2.9	19

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145	Stabilization of PbSe quantum dots by ultrathin EuTe and SrTe barrier layers. Applied Physics Letters, 2008, 93, 163102.	1.5	9
146	Mid-infrared vertical-cavity surface-emitting lasers based on lead salt/BaF ₂ Bragg mirrors. Proceedings of SPIE, 2008, , .	0.8	0
147	Self-organized Quantum Dot Multilayer Structures. , 2008, , 1-61.		5
148	Shape and composition of buried PbSe quantum dots determined by scanning tunneling microscopy. Applied Physics Letters, 2007, 90, 113119.	1.5	12
149	Size control and midinfrared emission of epitaxial PbTe/CdTe quantum dot precipitates grown by molecular beam epitaxy. Applied Physics Letters, 2007, 91, 222106.	1.5	57
150	Quantum dots with coherent interfaces between rocksalt-PbTe and zincblende-CdTe. Journal of Applied Physics, 2007, 101, 081723.	1.1	28
151	Mid-infrared high finesse microcavities and vertical-cavity lasers based on IV-VI semiconductor/BaF ₂ broadband Bragg mirrors. Journal of Applied Physics, 2007, 101, 093102.	1.1	17
152	Emission Properties of 6.7 Micron Vertical-Emitting Microcavity Lasers Operating in Continuous-Wave Mode. AIP Conference Proceedings, 2007, , .	0.3	0
153	Molecular beam epitaxy of IV-VI semiconductor hetero- and nano-structures. Physica Status Solidi (B): Basic Research, 2007, 244, 2752-2767.	0.7	15
154	Changes in the shapes of self-organized PbSe quantum dots during PbEuTe overgrowth investigated by anomalous X-ray diffraction. Applied Surface Science, 2006, 253, 177-181.	3.1	3
155	Deformation potentials and photo-response of strained PbSe quantum wells and quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 123-126.	1.3	6
156	Spin configurations in strained magnetic superlattices grown by molecular beam epitaxy. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 379-382.	1.3	4
157	PbTe: A new medium for quantum ballistic devices. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 560-563.	1.3	21
158	Highly luminescent nanocrystal quantum dots fabricated by lattice-type mismatched epitaxy. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 35, 241-245.	1.3	8
159	Quantum nanostructures of paraelectric PbTe. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 35, 332-337.	1.3	9
160	Surface Exchange and Shape Transitions of PbSe Quantum Dots during Overgrowth. Physical Review Letters, 2006, 97, 266103.	2.9	15
161	Centrosymmetric PbTe/CdTe quantum dots coherently embedded by epitaxial precipitation. Applied Physics Letters, 2006, 88, 192109.	1.5	95
162	Room temperature operation of epitaxial lead-telluride detectors monolithically integrated on midinfrared filters. Applied Physics Letters, 2006, 88, 041105.	1.5	29

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163	Highly efficient epitaxial Bragg mirrors with broad omnidirectional reflectance bands in the midinfrared. Applied Physics Letters, 2006, 89, 051110.	1.5	13
164	Lateral photocurrent spectroscopy on self-assembled PbSe quantum dots. Applied Physics Letters, 2006, 88, 201105.	1.5	16
165	Mid-infrared Vertical Cavity Surface Emitting Lasers based on the Lead Salt Compounds. Springer Series in Optical Sciences, 2006, , 265-301.	0.5	8
166	Molecular beam epitaxy of vertical-emitting microcavity lasers for the 6-8micron spectral range operating in continuous-wave mode. Journal of Crystal Growth, 2005, 278, 723-727.	0.7	0
167	Three-dimensional stacking of self-assembled quantum dots in multilayer structures. Comptes Rendus Physique, 2005, 6, 89-103.	0.3	30
168	Band-edge polarized optical absorption in europium chalcogenides. Physical Review B, 2005, 72, .	1.1	27
169	Strain Induced Changes in the Magnetic Phase Diagram of Metamagnetic Heteroepitaxial EuSe/PbSe $_{1-x}$ Te $_x$ Multilayers. Physical Review Letters, 2005, 94, 157201.	2.9	36
170	Magnetic field tunable circularly polarized stimulated emission from midinfrared IV-VI vertical emitting lasers. Applied Physics Letters, 2005, 86, 021109.	1.5	5
171	Emission properties of 6.7- μ m continuous-wave PbSe-based vertical-emitting microcavity lasers operating up to 100K. Applied Physics Letters, 2005, 86, 031102.	1.5	30
172	Disorder suppression and precise conductance quantization in constrictions of PbTe quantum wells. Physical Review B, 2005, 72, .	1.1	31
173	Anomalous X-ray diffraction from self-assembled PbSe/PbEuTe quantum dots. Journal of Alloys and Compounds, 2005, 401, 4-10.	2.8	6
174	SEMICONDUCTOR MATERIALS Lead Salts. , 2005, , 385-392.		1
175	IV-VI resonant-cavity enhanced photodetectors for the mid-infrared. Semiconductor Science and Technology, 2004, 19, L115-L117.	1.0	16
176	Strain determination in multilayers by complementary anomalous x-ray diffraction. Physical Review B, 2004, 69, .	1.1	10
177	Critical thickness and strain relaxation in high-misfit heteroepitaxial systems: PbTe $_{1-x}$ Se $_x$ on PbSe (001). Physical Review B, 2004, 69, .	1.1	28
178	Magnetic polaron induced near-band-gap luminescence in epitaxial EuTe. Physical Review B, 2004, 70, .	1.1	24
179	Hysteresis loops of the energy band gap and effective g factor up to 18% for metamagnetic EuSe epilayers. Applied Physics Letters, 2004, 85, 67-69.	1.5	9
180	Soft x-ray magnetic scattering from ordered EuSe nanoislands. Applied Physics Letters, 2004, 84, 2661-2663.	1.5	8

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