Laurens Molenkamp

List of Publications by Year in Descending Order

431 papers	23,250 citations	67 h-index	144 g-index
464 ext. papers	25,975 ext. citations	4.9 avg, IF	6.51 L-index

#	Paper	IF	Citations
431	Counterpropagating topological and quantum Hall edge channels.. *Nature Communications*, **2022**, 13, 2682	17.4	0
430	Massive and Topological Surface States in Tensile-Strained HgTe. *Nano Letters*, **2021**, 21, 9869-9874	11.5	1
429	Profiling spin and orbital texture of a topological insulator in full momentum space. *Physical Review B*, **2021**, 103,	3.3	2
428	Quantized spin Hall conductance in a magnetically doped two dimensional topological insulator. *Nature Communications*, **2021**, 12, 3193	17.4	1
427	Electron-Hole Scattering Limited Transport of Dirac Fermions in a Topological Insulator. *Nano Letters*, **2021**, 21, 5195-5200	11.5	0
426	Any axion insulator must be a bulk three-dimensional topological insulator. *Physical Review B*, **2021**, 103,	3.3	3
425	Super-Resonant Transport of Topological Surface States Subjected to In-Plane Magnetic Fields. *Physical Review Letters*, **2021**, 127, 076601	7.4	0
424	Unidirectional magnetoresistance and spin-orbit torque in NiMnSb. *Physical Review B*, **2021**, 104,	3.3	3
423	Quantum anomalous Hall edge channels survive up to the Curie temperature. *Nature Communications*, **2021**, 12, 5599	17.4	4
422	Emergent quantum Hall effects below 50 mT in a two-dimensional topological insulator. *Science Advances*, **2020**, 6, eaba4625	14.3	9
421	Dynamical Separation of Bulk and Edge Transport in HgTe-Based 2D Topological Insulators. *Physical Review Letters*, **2020**, 124, 076802	7.4	5
420	Coexistence of Surface and Bulk Ferromagnetism Mimics Skyrmion Hall Effect in a Topological Insulator. *Physical Review X*, **2020**, 10,	9.1	15
419	Comparing magnetic ground-state properties of the V- and Cr-doped topological insulator (Bi,Sb)2Te3. *Physical Review B*, **2020**, 101,	3.3	13
418	Efficiency of ultrafast optically induced spin transfer in Heusler compounds. *Physical Review Research*, **2020**, 2,	3.9	14
417	Molecular beam epitaxy of the half-Heusler antiferromagnet CuMnSb. *Physical Review Materials*, **2020**, 4,	3.2	1
416	Absence of evidence for chiral Majorana modes in quantum anomalous Hall-superconductor devices. *Science*, **2020**, 367, 64-67	33.3	37
415	Interacting topological edge channels. *Nature Physics*, **2020**, 16, 83-88	16.2	31

414	Ultrafast nonlocal collective dynamics of Kane plasmon-polaritons in a narrow-gap semiconductor. *Science Advances*, **2019**, 5, eaau9956	14.3	10
413	Interplay of Dirac Nodes and Volkov-Pankratov Surface States in Compressively Strained HgTe. *Physical Review X*, **2019**, 9,	9.1	9
412	Proximity-Induced Superconductivity in CdTe-HgTe Core-Shell Nanowires. *Nano Letters*, **2019**, 19, 4078-4082	10.8	4
411	Residual strain in free-standing CdTe nanowires overgrown with HgTe. *Applied Physics Letters*, **2019**, 114, 153104	3.4	1
410	Topological superconductivity in a phase-controlled Josephson junction. *Nature*, **2019**, 569, 93-98	50.4	102
409	Phase-Tunable Thermal Rectification in the Topological SQUIPT. *Physical Review Applied*, **2019**, 11,	4.3	14
408	Band structure engineering and reconstruction in electric circuit networks. *Physical Review B*, **2019**, 99,	3.3	58
407	Approaching Quantization in Macroscopic Quantum Spin Hall Devices through Gate Training. *Physical Review Letters*, **2019**, 123, 047701	7.4	17
406	Breaking crystalline symmetry of epitaxial SnTe films by strain. *Physical Review Materials*, **2019**, 3,	3.2	3
405	How to measure the entropy of a mesoscopic system via thermoelectric transport. *Nature Communications*, **2019**, 10, 5801	17.4	20
404	Survival of the Quantum Anomalous Hall Effect in Orbital Magnetic Fields as a Consequence of the Parity Anomaly. *Physical Review Letters*, **2019**, 123, 226602	7.4	12
403	Precision measurement of the quantized anomalous Hall resistance at zero magnetic field. *Applied Physics Letters*, **2018**, 112, 072102	3.4	35
402	Self-organization process in crystalline PbTe/CdTe multilayer structures: Experiment and Monte Carlo simulations. *Journal of Alloys and Compounds*, **2018**, 747, 809-814	5.7	7
401	Topological SQUIPT Based on Helical Edge States in Proximity to Superconductors. *Physical Review Applied*, **2018**, 10,	4.3	11
400	Hanbury-Brown and Twiss exchange and non-equilibrium-induced correlations in disordered, four-terminal graphene-ribbon conductor. *Scientific Reports*, **2018**, 8, 14952	4.9	2
399	Microwave Studies of the Fractional Josephson Effect in HgTe-Based Josephson Junctions. *Springer Series in Solid-state Sciences*, **2018**, 115-148	0.4	1
398	Topolectrical-circuit realization of topological corner modes. *Nature Physics*, **2018**, 14, 925-929	16.2	412
397	Relativistic Gurzhi effect in channels of Dirac materials. *Physical Review B*, **2018**, 97,	3.3	16

396	High Mobility HgTe Microstructures for Quantum Spin Hall Studies. *Nano Letters*, **2018**, 18, 4831-4836	11.5	19
395	Electron-hole asymmetry of the topological surface states in strained HgTe. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3381-3386	11.5	10
394	Observation of the universal magnetoelectric effect in a 3D topological insulator. *Nature Communications*, **2017**, 8, 15197	17.4	92
393	Microstructural characterization of Cr-doped (Bi,Sb)2Te3 thin films. *CrystEngComm*, **2017**, 19, 3633-3639	3.3	6
392	Observation of Volkov-Pankratov states in topological HgTe heterojunctions using high-frequency compressibility. *Physical Review B*, **2017**, 96,	3.3	28
391	Transport spectroscopy of induced superconductivity in the three-dimensional topological insulator HgTe. *Physical Review B*, **2017**, 96,	3.3	26
390	Josephson junction dynamics in the presence of 2□and 4□periodic supercurrents. *Physical Review B*, **2017**, 95,	3.3	38
389	Engineering the magnetic anisotropy axes in epitaxial half-Heusler NiMnSb by Pt and Ta capping. *Applied Physics Letters*, **2017**, 111, 172402	3.4	4
388	Interplay of Chiral and Helical States in a Quantum Spin Hall Insulator Lateral Junction. *Physical Review Letters*, **2017**, 119, 226401	7.4	7
387	Josephson Radiation from Gapless Andreev Bound States in HgTe-Based Topological Junctions. *Physical Review X*, **2017**, 7,	9.1	74
386	Scaling of the Quantum Anomalous Hall Effect as an Indicator of Axion Electrodynamics. *Physical Review Letters*, **2017**, 118, 246801	7.4	43
385	All-thermal transistor based on stochastic switching. *Physical Review B*, **2017**, 95,	3.3	34
384	Gapless Andreev bound states in the quantum spin Hall insulator HgTe. *Nature Nanotechnology*, **2017**, 12, 137-143	28.7	163
383	Controlled finite momentum pairing and spatially varying order parameter in proximitized HgTe quantum wells. *Nature Physics*, **2017**, 13, 87-93	16.2	47
382	Single-electron thermal devices coupled to a mesoscopic gate. *New Journal of Physics*, **2017**, 19, 113040	2.9	32
381	Epitaxy and structural properties of (V,Bi,Sb)2Te3 layers exhibiting the quantum anomalous Hall effect. *Physical Review Materials*, **2017**, 1,	3.2	18
380	CdTe-HgTe core-shell nanowire growth controlled by RHEED. *Physical Review Materials*, **2017**, 1,	3.2	6
379	Strain Engineering of the Band Gap of HgTe Quantum Wells Using Superlattice Virtual Substrates. *Physical Review Letters*, **2016**, 117, 086403	7.4	37

378	Impurity states in the magnetic topological insulator V:(Bi,Sb)2Te3. *Physical Review B*, **2016**, 94,	3.3	30
377	Thermodynamic origin of the slow free exciton photoluminescence rise in GaAs. *Physical Review B*, **2016**, 93,	3.3	12
376	High-temperature quantum Hall effect in finite gapped HgTe quantum wells. *Physical Review B*, **2016**, 93,	3.3	12
375	4□periodic Josephson supercurrent in HgTe-based topological Josephson junctions. *Nature Communications*, **2016**, 7, 10303	17.4	211
374	Kinetic limitation of chemical ordering in Bi2Te3-x Se x layers grown by molecular beam epitaxy. *Journal of Physics Condensed Matter*, **2016**, 28, 145002	1.8	2
373	Coulomb-blockade peak spacing statistics of graphene quantum dots on SiO2. *Journal of Applied Physics*, **2016**, 120, 164304	2.5	2
372	Low-current, narrow-linewidth microwave signal generation in NiMnSb based single-layer nanocontact spin-torque oscillators. *Applied Physics Letters*, **2016**, 109, 222403	3.4	2
371	Thermoelectrics with Coulomb-coupled quantum dots. *Comptes Rendus Physique*, **2016**, 17, 1109-1122	1.4	27
370	Room-temperature spin□rbit torque in NiMnSb. *Nature Physics*, **2016**, 12, 855-860	16.2	54
369	Anisotropic and strong negative magnetoresistance in the three-dimensional topological insulator Bi2Se3. *Physical Review B*, **2016**, 94,	3.3	42
368	Thermal control and generation of charge currents in coupled quantum dots. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 582-590	1.6	2
367	Observation of Thermoelectric Voltages from the Two-Dimensional Electron Gas of a HgTe Quantum Well Due to Resonant THz Laser Heating. *Journal of Electronic Materials*, **2015**, 44, 3598-3602	1.9	
366	Magneto-optics of massive dirac fermions in bulk Bi2Se3. *Physical Review Letters*, **2015**, 114, 186401	7.4	55
365	Topological Insulators in Two Dimensions **2015**, 31-54		1
364	Rashba Effect and Beating Patterns in the THz Magneto-Photoresponse of a HgTe-Based Two-Dimensional Electron Gas. *International Journal of High Speed Electronics and Systems*, **2015**, 24, 1520003	0.5	
363	Phase-sensitive SQUIDs based on the 3D topological insulator HgTe. *Physica Scripta*, **2015**, T164, 014002	2.6	10
362	Three-terminal energy harvester with coupled quantum dots. *Nature Nanotechnology*, **2015**, 10, 854-8	28.7	157
361	Optical power-driven electron spin relaxation regime crossover in Mn-doped bulk GaAs. *Physical Review B*, **2015**, 92,	3.3	3

360	Correct determination of low-temperature free-exciton diffusion profiles in GaAs. *Physical Review B* , **2015**, 92,	3.3	5
359	Coincidence of superparamagnetism and perfect quantization in the quantum anomalous Hall state. *Physical Review B*, **2015**, 92,	3.3	66
358	Tunable damping, saturation magnetization, and exchange stiffness of half-Heusler NiMnSb thin films. *Physical Review B*, **2015**, 92,	3.3	38
357	Spatially Resolved Thermodynamics of the Partially Ionized Exciton Gas in GaAs. *Physical Review Letters*, **2015**, 114, 227402	7.4	10
356	Polytypism and band alignment in ZnSe nanowires revealed by photoluminescence spectroscopy of embedded (Zn,Cd)Se quantum dots. *Physical Review B*, **2015**, 91,	3.3	2
355	Dimensional crossover of free exciton diffusion in etched GaAs wire structures. *Applied Physics Letters*, **2015**, 107, 122106	3.4	2
354	Thermal gating of charge currents with Coulomb coupled quantum dots. *New Journal of Physics*, **2015**, 17, 113003	2.9	22
353	Rashba Effect and Beating Patterns in the THz Magneto-Photoresponse of a HgTe-Based Two-Dimensional Electron Gas. *Selected Topics in Electornics and Systems*, **2015**, 67-73	0	
352	Unexpected edge conduction in mercury telluride quantum wells under broken time-reversal symmetry. *Nature Communications*, **2015**, 6, 7252	17.4	72
351	Spin Hall effect-controlled magnetization dynamics in NiMnSb. *Journal of Applied Physics*, **2015**, 117, 17E103	2.5	8
350	Temperature-driven transition from a semiconductor to a topological insulator. *Physical Review B*, **2015**, 91,	3.3	25
349	Nanoscale morphology of multilayer PbTe/CdTe heterostructures and its effect on photoluminescence properties. *Nanotechnology*, **2015**, 26, 135601	3.4	7
348	Nonsinusoidal current-phase relationship in Josephson junctions from the 3D topological insulator HgTe. *Physical Review Letters*, **2015**, 114, 066801	7.4	75
347	Spin texture of Bi2Se3 thin films in the quantum tunneling limit. *Physical Review Letters*, **2014**, 112, 057601	7.4	56
346	Sophisticated process for a spin-torque device fabricated from a pillar containing two different ferromagnetic materials separated by a non-magnetic layer. *Microelectronic Engineering*, **2014**, 119, 20-23	2.5	
345	Suppressing Twin Formation in Bi2Se3 Thin Films. *Advanced Materials Interfaces*, **2014**, 1, 1400134	4.6	48
344	Induced superconductivity in the quantum spin Hall edge. *Nature Physics*, **2014**, 10, 638-643	16.2	227
343	Self-consistent k□p calculations for gated thin layers of three-dimensional topological insulators. *Physical Review B*, **2014**, 89,	3.3	9

342	One-dimensional weak antilocalization due to the berry phase in HgTe wires. *Physical Review Letters*, **2014**, 112, 146803	7.4	11
341	Time and spatially resolved electron spin detection in semiconductor heterostructures by magneto-optical Kerr microscopy. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 1839-1849	1.3	3
340	Hot electron spin diffusion in n-type GaAs. *European Physical Journal Plus*, **2014**, 129, 1	3.1	1
339	Landau levels and spin splitting in the two-dimensional electron gas of a HgTe quantum well near the critical width for the topological phase transition. *Physical Review B*, **2014**, 90,	3.3	10
338	Dirac-Screening Stabilized Surface-State Transport in a Topological Insulator. *Physical Review X*, **2014**, 4,	9.1	24
337	Electronic structure and morphology of epitaxial Bi2Te2Se topological insulator films. *Journal of Applied Physics*, **2014**, 116, 193708	2.5	13
336	Excitonic ring formation in ultrapure bulk GaAs. *Physical Review B*, **2014**, 90,	3.3	4
335	Exciton decay dynamics controlled by impurity occupation in strongly Mn-doped and partially compensated bulk GaAs. *Physical Review B*, **2014**, 90,	3.3	2
334	Control of the magnetic in-plane anisotropy in off-stoichiometric NiMnSb. *Journal of Applied Physics* , **2014**, 115, 094505	2.5	12
333	Spin coherence of electrons and holes in ZnSe-based quantum wells studied by pump–probe Kerr rotation. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 1872-1880	1.3	11
332	Removal of GaAs growth substrates from II–VI semiconductor heterostructures. *Semiconductor Science and Technology*, **2014**, 29, 045016	1.8	2
331	Ultrafast supercontinuum fiber-laser based pump-probe scanning magneto-optical Kerr effect microscope for the investigation of electron spin dynamics in semiconductors at cryogenic temperatures with picosecond time and micrometer spatial resolution. *Review of Scientific Instruments*, **2013**, 84, 123903	1.7	11
330	Quantum Spin Hall State in HgTe. *Contemporary Concepts of Condensed Matter Science*, **2013**, 6, 125-142		
329	Large room-temperature magnetoresistance in lateral organic spin valves fabricated by in situ shadow evaporation. *Organic Electronics*, **2013**, 14, 2082-2086	3.5	9
328	Vertical organic spin valves in perpendicular magnetic fields. *Physical Review B*, **2013**, 88,	3.3	45
327	Terahertz quantum Hall effect of Dirac fermions in a topological insulator. *Physical Review B*, **2013**, 87,	3.3	29
326	Imaging currents in HgTe quantum wells in the quantum spin Hall regime. *Nature Materials*, **2013**, 12, 787-91	27	195
325	Room temperature electrically tunable terahertz Faraday effect. *Applied Physics Letters*, **2013**, 102, 241902	3.4	28

324	Diffusion thermopower of a serial double quantum dot. *New Journal of Physics*, **2013**, 15, 123010	2.9	35
323	Spatially Resolved Study of Backscattering in the Quantum Spin Hall State. *Physical Review X*, **2013**, 3,	9.1	62
322	Observing electronic structures on ex-situ grown topological insulator thin films. *Physica Status Solidi - Rapid Research Letters*, **2013**, 7, 130-132	2.5	10
321	Josephson Supercurrent through the Topological Surface States of Strained Bulk HgTe. *Physical Review X*, **2013**, 3,	9.1	60
320	Shot noise in lithographically patterned graphene nanoribbons. *Physical Review B*, **2013**, 88,	3.3	10
319	Molecular beam epitaxy of high structural quality Bi2Se3 on lattice matched InP(111) substrates. *Applied Physics Letters*, **2013**, 102, 041914	3.4	73
318	Hot carrier effects on the magneto-optical detection of electron spins in GaAs. *Physical Review B*, **2013**, 88,	3.3	5
317	Picosecond real-space imaging of electron spin diffusion in GaAs. *Physical Review B*, **2013**, 88,	3.3	9
316	Hot carrier effects on lateral electron spin diffusion in n-type GaAs. *Physical Review B*, **2013**, 87,	3.3	11
315	Microstructural characterisation of Bi2Se3thin films. *Journal of Physics: Conference Series*, **2013**, 471, 012043	0.3	2
314	Induced superconductivity in the three-dimensional topological insulator HgTe. *Physical Review Letters*, **2012**, 109, 186806	7.4	51
313	Fabrication of magnetic artificial atoms. *Nanotechnology*, **2012**, 23, 395301	3.4	
312	Edge state transport through disordered graphene nanoribbons in the quantum Hall regime. *Physical Review B*, **2012**, 86,	3.3	10
311	Comparative Study of the Microstructure of Bi2Se3 Thin Films Grown on Si(111) and InP(111) Substrates. *Crystal Growth and Design*, **2012**, 12, 1913-1918	3.5	63
310	Reentrant topological phases in Mn-doped HgTe quantum wells. *Physical Review B*, **2012**, 85,	3.3	21
309	Spin polarization of the quantum spin Hall edge states. *Nature Physics*, **2012**, 8, 485-490	16.2	213
308	Fabrication of samples for scanning probe experiments on quantum spin Hall effect in HgTe quantum wells. *Journal of Applied Physics*, **2012**, 112, 103713	2.5	7
307	Spatially resolved photocarrier energy relaxation in low-doped bulk GaAs. *Physical Review B*, **2012**, 86,	3.3	12

306	Quantum Hall effect in narrow graphene ribbons. *Physical Review B*, **2012**, 86,	3.3	9
305	Terahertz magneto-optical spectroscopy in HgTe thin films. *Semiconductor Science and Technology*, **2012**, 27, 124004	1.8	28
304	Surface state charge dynamics of a high-mobility three-dimensional topological insulator. *Physical Review Letters*, **2011**, 107, 136803	7.4	69
303	Giant magneto-optical faraday effect in HgTe thin films in the terahertz spectral range. *Physical Review Letters*, **2011**, 106, 107404	7.4	81
302	Fine structure of zero-mode Landau levels in HgTe/HgxCd1⊠Te quantum wells. *Physical Review B*, **2011**, 83,	3.3	48
301	Fully electrical read-write device out of a ferromagnetic semiconductor. *Physical Review Letters*, **2011**, 106, 057204	7.4	21
300	Optimal control of vortex-core polarity by resonant microwave pulses. *Nature Physics*, **2011**, 7, 26-31	16.2	54
299	Single valley Dirac fermions in zero-gap HgTe quantum wells. *Nature Physics*, **2011**, 7, 418-422	16.2	201
298	Quantum Hall effect from the topological surface states of strained bulk HgTe. *Physical Review Letters*, **2011**, 106, 126803	7.4	376
297	Tunneling anisotropic magnetoresistance in organic spin valves. *Physical Review B*, **2011**, 84,	3.3	51
296	Backscattering of Dirac fermions in HgTe quantum wells with a finite gap. *Physical Review Letters*, **2011**, 106, 076802	7.4	34
295	Local domain sensing with nanostructured tunneling anisotropic magneto resistance probes. *Applied Physics Letters*, **2011**, 99, 202504	3.4	1
294	Zero field spin polarization in a two-dimensional paramagnetic resonant tunneling diode. *Physical Review B*, **2011**, 83,	3.3	16
293	Diffusion thermopower of (Ga,Mn)As/GaAs tunnel junctions. *Physical Review Letters*, **2011**, 107, 197201	7.4	16
292	Photoinduced Barkhausen effect in the ferromagnetic semiconductor (Ga,Mn)As. *Physical Review Letters*, **2011**, 106, 037204	7.4	5
291	Magnetic-field-induced exchange effects between Mn ions and free carriers in ZnSe quantum wells through the intermediate nonmagnetic barrier studied by photoluminescence. *Physical Review B*, **2011**, 83,	3.3	5
290	Induced magnetic anisotropy in lifted (Ga,Mn)As thin films. *Applied Physics Letters*, **2011**, 98, 231903	3.4	2
289	Evidence for the ballistic intrinsic spin Hall effect in HgTe nanostructures. *Nature Physics*, **2010**, 6, 448-454	16.2	124

288	Fingerprint of different spin–orbit terms for spin transport in HgTe quantum wells. *New Journal of Physics*, **2010**, 12, 065012	2.9	133
287	Spin injection and circular polarized electroluminescence from InAs-based spin-light emitting diode structures. *Journal of Applied Physics*, **2010**, 107, 114510	2.5	3
286	Single picojoule pulse switching of magnetization in ferromagnetic (Ga,Mn)As. *Applied Physics Letters*, **2010**, 97, 232503	3.4	15
285	Circular photogalvanic effect in HgTe/CdHgTe quantum well structures. *Semiconductor Science and Technology*, **2010**, 25, 095005	1.8	23
284	Quantum tunneling through planar p–n junctions in HgTe quantum wells. *New Journal of Physics*, **2010**, 12, 083058	2.9	29
283	Interaction between Mn ions and free carriers in quantum wells with asymmetrical semimagnetic barriers. *Europhysics Letters*, **2010**, 91, 67007	1.6	2
282	A frequency-controlled magnetic vortex memory. *Applied Physics Letters*, **2010**, 96, 132506	3.4	120
281	Novel Spintronic Devices Using Local Anisotropy Engineering in (Ga,Mn)As. *Journal of Superconductivity and Novel Magnetism*, **2010**, 23, 69-73	1.5	
280	High-performance single crystal organic field-effect transistors based on two dithiophene-tetrathiafulvalene (DT-TTF) polymorphs. *Advanced Materials*, **2010**, 22, 4198-203	24	96
279	Semimagnetic II–VI semiconductor resonant tunneling diodes characterized by high-resolution X-ray diffraction. *Journal of Crystal Growth*, **2010**, 312, 1036-1039	1.6	3
278	Nonthermal photocoercivity effect in a low-doped (Ga,Mn)As ferromagnetic semiconductor. *Physical Review Letters*, **2009**, 102, 187401	7.4	14
277	Influence of light on spin diffusion in weak magnetic fields. *Physical Review B*, **2009**, 79,	3.3	6
276	Nonlinear magnetogyrotropic photogalvanic effect. *Physical Review B*, **2009**, 80,	3.3	11
275	Electric-field induced modulation of the magneto-optical Kerr effect in a (Zn,Be,Mn)Se/GaAs spintronic device. *Physical Review B*, **2009**, 80,	3.3	4
274	Independent magnetization behavior of a ferromagnetic metal-semiconductor hybrid system. *Physical Review Letters*, **2009**, 103, 017204	7.4	13
273	INVESTIGATION OF SPIN TRANSPORT IN SEMICONDUCTORS BY SPATIALLY RESOLVED TWO-COLOR HANLE-MOKE MEASUREMENTS. *International Journal of Modern Physics B*, **2009**, 23, 2760-2765	1.1	
272	Hall effects and related phenomena in disordered Rashba 2DEG. *Semiconductor Science and Technology*, **2009**, 24, 064003	1.8	9
271	Large depletion region at the epitaxial n-ZnSe/GaAs heterointerface. *Semiconductor Science and Technology*, **2009**, 24, 035005	1.8	7

270	A process for the fabrication of large areas of high resolution, high aspect ratio silicon structures using a negative tone Novolak based e-beam resist. *Microelectronic Engineering*, **2009**, 86, 726-729	2.5	5
269	Nonlocal transport in the quantum spin Hall state. *Science*, **2009**, 325, 294-7	33.3	665
268	Bistability of vortex core dynamics in a single perpendicularly magnetized nanodisk. *Physical Review Letters*, **2009**, 102, 177602	7.4	96
267	Chapter 6 Spintronic Nanodevices. *Semiconductors and Semimetals*, **2008**, 82, 241-286	0.6	
266	Time-resolved and continuous-wave optical spin pumping of semiconductor quantum wells. *Semiconductor Science and Technology*, **2008**, 23, 114001	1.8	28
265	The four polymorphic modifications of the semiconductor dibenzo-tetrathiafulvalene. *CrystEngComm*, **2008**, 10, 1899	3.3	54
264	Optical polarization of semimagnetic CdSe quantum dots with low manganese content. *Semiconductor Science and Technology*, **2008**, 23, 114018	1.8	8
263	The Quantum Spin Hall Effect: Theory and Experiment. *Journal of the Physical Society of Japan*, **2008**, 77, 031007	1.5	592
262	DEVICE CONCEPTS IN SEMICONDUCTOR SPINTRONICS. *International Journal of Modern Physics B*, **2008**, 22, 119-119	1.1	
261	An extensive comparison of anisotropies in MBE grown (Ga,Mn)As material. *New Journal of Physics*, **2008**, 10, 055007	2.9	26
260	Lateral magnetic anisotropy superlattice out of a single (Ga,Mn)As layer. *New Journal of Physics*, **2008**, 10, 073001	2.9	
259	Quantum dot as thermal rectifier. *New Journal of Physics*, **2008**, 10, 083016	2.9	167
258	Suppression of electron spin relaxation in Mn-doped GaAs. *Physical Review Letters*, **2008**, 101, 076602	7.4	36
257	Electrical spin injection and optical detection in InAs based light emitting diodes. *Applied Physics Letters*, **2008**, 93, 081112	3.4	3
256	Fermi edge singularity in II-VI semiconductor resonant tunneling structures. *Applied Physics Letters*, **2008**, 93, 182104	3.4	13
255	Tunable quantum coupling in a II-VI quantum dot molecule. *Journal of Applied Physics*, **2008**, 103, 113520	2.5	7
254	Bound magnetic polarons in the very dilute regime. *Physical Review B*, **2008**, 77,	3.3	5
253	Long-Range Spin Currents with Chiral Crystals. *Physics Magazine*, **2008**, 1,	1.1	1

252	Organic field-effect transistors for spin-polarized transport. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 656-663	1.6	14
251	High-mobility tetrathiafulvalene organic field-effect transistors from solution processing. *Organic Electronics*, **2008**, 9, 1101-1106	3.5	64
250	Character of states near the Fermi level in (Ga,Mn)As: Impurity to valence band crossover. *Physical Review B*, **2007**, 76,	3.3	130
249	ZnSe/CdSe Superlattice Nanowires by Catalyst-assisted Molecular Beam Epitaxy. *AIP Conference Proceedings*, **2007**,	0	3
248	Magnetic Anisotropies and (Ga,Mn)As-based Spintronic Devices. *Advanced Materials*, **2007**, 19, 323-340	24	40
247	Micro-patterned RTDs: Fabrication details and device performance. *Microelectronic Engineering*, **2007**, 84, 1566-1569	2.5	1
246	Simple high resolution nanoimprint-lithography. *Microelectronic Engineering*, **2007**, 84, 937-939	2.5	27
245	CdSe/ZnSe heteroepitaxy: Aspects of growth and self organization of nanostructures. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3129-3149		5
244	The influence of interfaces and the modulation doping technique on the magneto-transport properties of HgTe based quantum wells. *Physica Status Solidi C: Current Topics in Solid State Physics* , **2007**, 4, 3382-3389		15
243	All II-VI magnetic resonant tunneling diodes as voltage controlled spin filters. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3390-3396		1
242	Zero field spin splitting in CdSe quantum dots. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3356-3361		1
241	MBE growth of dilute magnetic (Zn,Mn)Se on Si substrates. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3161-3165		
240	Light controlled spin properties and radiative coupling of CdSe based quantum dots. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3334-3346		
239	Optical characterization of thermally annealed self-assembled ZnCdSe quantum dots. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3280-3288		
238	Optical studies of structural and magnetic anisotropies in epitaxial CdSe/ZnSe quantum dots. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3324-3333		0
237	Phase effects in HgTe quantum structures. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3374-3381		3
236	Structure and relaxation effects in thin semiconducting films and quantum dots. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3150-3160		5
235	Surface reconstructions of II-VI compound semiconductor surfaces. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3183-3190		2

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