Jacek Kossut

List of Publications by Citations

350 papers	5,060 citations	35 h-index	55 g-index
381 ext. papers	5,292 ext. citations	2.5 avg, IF	4.79 L-index

#	Paper	IF	Citations
350	Dependence of energy gap on x and T in Zn1-xMnxSe: The role of exchange interaction. *Physical Review B*, **1986**, 33, 8207-8215	3.3	308
349	Influence of s-d exchange interaction on the conductivity of Cd1-xMnxSe:In in the weakly localized regime. *Physical Review Letters*, **1986**, 56, 508-511	7.4	162
348	Influence of Exchange Interaction on the Quantum Transport Phenomena in Hg1−xMnxTe. *Physica Status Solidi (B): Basic Research*, **1978**, 88, 73-85	1.3	142
347	Photoluminescence study of CdTe/ZnTe self-assembled quantum dots. *Applied Physics Letters*, **1999**, 74, 3011-3013	3.4	138
346	Kinetic Exchange between the Conduction Band Electrons and Magnetic Ions in Quantum-Confined Structures. *Physical Review Letters*, **1999**, 83, 1431-1434	7.4	105
345	Energy transfer from photocarriers into the magnetic ion system mediated by a two-dimensional electron gas in (Cd,Mn)Te/(Cd,Mg)Te quantum wells. *Physical Review B*, **2000**, 61, 16870-16882	3.3	85
344	CdSe quantum dots in a Zn1−xMnxSe matrix: new effects due to the presence of Mn. *Journal of Crystal Growth*, **2000**, 214-215, 395-399	1.6	81
343	Spin coherence of a two-dimensional electron gas induced by resonant excitation of trions and excitons in CdTe□(Cd,Mg)Te quantum wells. *Physical Review B*, **2007**, 76,	3.3	79
342	Reduction of charge-center scattering rate in Hg1-xFexSe. *Physical Review B*, **1987**, 35, 3900-3909	3.3	71
341	High mobility 2D electron gas in iodine modulation doped CdTe/CdMgTe heterostructures. *Journal of Crystal Growth*, **1998**, 184-185, 814-817	1.6	70
340	Photoluminescence study of p-type ZnO:Sb prepared by thermal oxidation of the Zn-Sb starting material. *Physical Review B*, **2007**, 76,	3.3	67
339	Optically-induced magnetization of CdMnTe self-assembled quantum dots. *Applied Physics Letters*, **2004**, 84, 3337-3339	3.4	61
338	Optical method for the determination of carrier density in modulation-doped quantum wells. *Physical Review B*, **2002**, 65,	3.3	57
337	Microluminescence from Cd1−xMnxTe magnetic quantum dots containing only a few Mn ions. *Physical Review B*, **2007**, 75,	3.3	55
336	Modulation-doped Cd1−xMnxTe/Cd1−yMgyTe quantum well structures with spatial in-plane profiling of the well width and the doping intensity. *Applied Physics Letters*, **1998**, 73, 1379-1381	3.4	54
335	Optically detected magnetic resonance of excess electrons in type-I quantum wells with a low-density electron gas. *Physical Review B*, **1998**, 58, R1766-R1769	3.3	54
334	Cathodoluminescence study of diluted magnetic semiconductor quantum well/micromagnet hybrid structures. *Applied Physics Letters*, **2001**, 79, 1789-1791	3.4	51

333	Structural properties of cubic MnTe layers grown by MBE. *Thin Solid Films*, **1995**, 267, 74-78	2.2	51
332	g-factor dependence of the evolution of magneto-optical spectra with the density of quasi-two-dimensional electrons in Cd1−xMnxTe/Cd1−yMgyTe heterostructures. *Physical Review B*, **1999**, 59, R10437-R10440	3.3	50
331	Quantum transport studies of grain boundaries in p-Hg1−xMnxTe. *Applied Physics Letters*, **1984**, 45, 1214-1216	3.4	48
330	Electron transport phenomena in narrow- and zero-gap semiconductors containing magnetic impurities. *Physica Status Solidi (B): Basic Research*, **1976**, 78, 537-542	1.3	48
329	Photoluminescence study and structural characterization of p-type ZnO doped by N and/or As acceptors. *Semiconductor Science and Technology*, **2007**, 22, 10-14	1.8	46
328	Influence of s-d exchange interaction on universal conductance fluctuations in Cd1-xMnxTe:In. *Physical Review Letters*, **1995**, 75, 3170-3173	7.4	46
327	On the scattering of conduction electrons by magnetic impurities in semiconductors of InSb-Type and HgTe-Type band structure. *Physica Status Solidi (B): Basic Research*, **1975**, 72, 359-367	1.3	45
326	Transparent p-type ZnO films obtained by oxidation of sputter-deposited Zn3N2. *Solid State Communications*, **2005**, 135, 11-15	1.6	43
325	Structural and optical evidence of island correlation in CdTe/ZnTe superlattices. *Applied Physics Letters*, **2001**, 78, 3884-3886	3.4	42
324	Exciton spin relaxation time in quantum dots measured by continuous-wave photoluminescence spectroscopy. *Applied Physics Letters*, **2003**, 83, 5524-5526	3.4	41
323	Resonant states in semiconductors: A quantitative study of HgSe:Fe. *Solid State Communications*, **1990**, 74, 833-837	1.6	41
322	Spin coherence of two-dimensional electron gas in CdTe/(Cd,Mg)Te quantum wells. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 878-881	1.3	40
321	Band structure of HgSe and mixed crystals Hg1-xCdxSe and HgSxSe1-xfrom the interband magnetoabsorption. *Journal of Physics C: Solid State Physics*, **1982**, 15, 3293-3318		38
320	Diluted magnetic semiconductor quantum dots: An extreme sensitivity of the hole Zeeman splitting on the aspect ratio of the confining potential. *Physical Review B*, **2004**, 70,	3.3	37
319	Impact of carrier redistribution on the photoluminescence of CdTe self-assembled quantum dot ensembles. *Physical Review B*, **2004**, 69,	3.3	37
318	Chapter 4 Diluted magnetic semiconductors. *Handbook of Magnetic Materials*, **1993**, 7, 231-305	1.3	37
317	A simple lattice-matching guide for superlattices and heterostructures of tetrahedrally-bonded semiconductors. *Superlattices and Microstructures*, **1986**, 2, 89-96	2.8	36
316	Chapter 5 Band Structure and Quantum Transport Phenomena in Narrow-Gap Diluted Magnetic Semiconductors. *Semiconductors and Semimetals*, **1988**, 25, 183-227	0.6	36

315	Tuning the properties of magnetic CdMnTe quantum dots. *Applied Physics Letters*, **2003**, 83, 3575-3577	3.4	35
314	p-type conducting ZnO: fabrication and characterisation. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 1119-1124		35
313	The disorder scattering in zincblende narrow-gap semiconducting mixed crystals. *Physica Status Solidi (B): Basic Research*, **1978**, 86, 593-601	1.3	35
312	Excitons and Trions Modified by Interaction with a Two-Dimensional Electron Gas. *Physica Status Solidi (B): Basic Research*, **2001**, 227, 343-352	1.3	34
311	Size-dependent magneto-optical effects in CdMnTe diluted magnetic quantum dots. *Nanotechnology*, **2008**, 19, 235403	3.4	33
310	Pressure dependence of electron concentration and mobility in GaAs:Si-effects of on-site and inter-site interactions within a system of DX centres. *Semiconductor Science and Technology*, **1990**, 5, 261-264	1.8	33
309	Extreme In-Plane Anisotropy of the Heavy-Hole g Factor in (001)-CdTe/CdMnTe Quantum Wells. *Physical Review Letters*, **1999**, 82, 3176-3179	7.4	32
308	Exciton-controlled magnetization in single magnetic quantum dots. *Applied Physics Letters*, **2005**, 87, 072502	3.4	31
307	Spin-lattice relaxation in semimagnetic CdMnTe/CdMgTe quantum wells. *Physical Review B*, **2000**, 62, R10641-R10644	3.3	31
306	Optical spin pumping of modulation-doped electrons probed by a two-color Kerr rotation technique. *Physical Review B*, **2006**, 74,	3.3	29
305	Manipulating the exciton fine structure of single CdTe/ZnTe quantum dots by an in-plane magnetic field. *Physical Review B*, **2007**, 75,	3.3	29
304	Resonant spectroscopy of II-VI self-assembled quantum dots: Excited states and exciton–longitudinal optical phonon coupling. *Physical Review B*, **2004**, 70,	3.3	29
303	Growth and Optical Properties of Mn-Containing II–VI Quantum Dots. *Physica Status Solidi (B): Basic Research*, **2002**, 229, 469-472	1.3	28
302	Graded Quantum Well Structures Made of Diluted Magnetic Semiconductors. *Acta Physica Polonica A*, **1998**, 94, 199-217	0.6	28
301	Giant spin splitting in optically active ZnMnTe/ZnMgTe core/shell nanowires. *Nano Letters*, **2012**, 12, 3404-9	11.5	27
300	Correlation of donor electrons in diluted magnetic semiconductors with iron. *Semiconductor Science and Technology*, **1990**, 5, S260-S265	1.8	27
299	Indirect exchange interaction via electrons in spin–orbit coupled bands in semiconductors. *Physica Status Solidi (B): Basic Research*, **1979**, 96, 735-744	1.3	27
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295	Magnetopolaron effect on shallow indium donors in CdTe. *Physical Review B*, **1996**, 54, 1467-1470	3.3	26
294	Positively versus negatively charged excitons: A high magnetic field study of CdTe/Cd1−xMgxTe quantum wells. *Physical Review B*, **2011**, 83,	3.3	25
293	Excitons in novel diluted magnetic semiconductor quantum structures. *Thin Solid Films*, **1997**, 306, 271-282	2.2	25
292	Dynamical equilibrium between excitons and trions in CdTe quantum wells in high magnetic fields. *Physical Review B*, **2002**, 66,	3.3	25
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282	Optical control of electron spin coherence in CdTe/(Cd,Mg)Te quantum wells. *Physical Review B*, **2010**, 81,	3.3	21
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276	Manganese diffusion in MBE-grown Cd(Mn)Te structures. *Journal of Crystal Growth*, **1996**, 159, 980-984	1.6	20
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266	The dependence of the quantum oscillation amplitude on spin splitting. *Solid State Communications* , **1978**, 27, 1237-1240	1.6	18
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188	Neutral and Charged Exciton Photoluminescence in a Magnetic Field Studied for Different Electron Concentrations and g-Factors. *Physica Status Solidi (B): Basic Research*, **2002**, 229, 791-795	1.3	7
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