

Krzysztof Fronc

List of Publications by Year in descending order

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116
papers

1,321
citations

394421
19
h-index

434195
31
g-index

118
all docs

118
docs citations

118
times ranked

1815
citing authors

#	ARTICLE	IF	CITATIONS
1	XPS and XRD study of crystalline 3C-SiC grown by sublimation method. <i>Journal of Alloys and Compounds</i> , 1999, 286, 143-147.	5.5	103
2	Molecularly Imprinted Polymer (MIP) Film with Improved Surface Area Developed by Using Metal-Organic Framework (MOF) for Sensitive Lipocalin (NGAL) Determination. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19860-19865.	8.0	61
3	Cathodoluminescence study of diluted magnetic semiconductor quantum well/micromagnet hybrid structures. <i>Applied Physics Letters</i> , 2001, 79, 1789-1791.	3.3	53
4	Molecularly imprinted polymer based extended-gate field-effect transistor chemosensors for phenylalanine enantioselective sensing. <i>Journal of Materials Chemistry C</i> , 2017, 5, 969-977. <small>Magetophotoluminescence study of intershell exchange interaction in single CdTe/ZnTe quantum dots.</small>	5.5	46
5	<small>xmlns:mml='http://www.w3.org/1998/Math/MathML' display="block"><mml:mrow><mml:msub><mml:mrow></small>		
6	Yttrium-Doped Iron Oxide Nanoparticles for Magnetic Hyperthermia Applications. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6871-6883.	3.1	44
7	Spin Filtering in a Hybrid Ferromagnetic-Semiconductor Microstructure. <i>Physical Review Letters</i> , 2004, 93, 246601.	7.8	43
8	A novel electrospun ZnO nanofibers biosensor fabrication. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1413-1418.	7.8	41
9	Extended-gate field-effect transistor (EG-FET) with molecularly imprinted polymer (MIP) film for selective inosine determination. <i>Biosensors and Bioelectronics</i> , 2015, 74, 526-533.	10.1	39
10	Magnetophotoluminescence study of intershell exchange interaction in CdTe/ZnTe quantum dots. <i>Physical Review B</i> , 2011, 84, .	3.2	36
11	Donor gettering in GaAs by rare-earth elements. <i>Applied Physics Letters</i> , 1988, 53, 761-763.	3.3	34
12	Magnetic Fe doped ZnO nanofibers obtained by electrospinning. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 494-500.	2.4	34
13	Facile synthesis of core/shell ZnO/ZnS nanofibers by electrospinning and gas-phase sulfidation for biosensor applications. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24029-24037.	2.8	33
14	Upconverting/magnetic: Gd ₂ O ₃ :(Er ³⁺ , Yb ³⁺ , Zn ²⁺) nanoparticles for biological applications: effect of Zn ²⁺ doping. <i>RSC Advances</i> , 2015, 5, 78361-78373.	3.6	33
15	Resonant spectroscopy of II-VI self-assembled quantum dots: Excited states and exciton-longitudinal optical phonon coupling. <i>Physical Review B</i> , 2004, 70, .	3.2	30
16	Synthesis of ZnAl ₂ O ₄ :(Er ³⁺ , Yb ³⁺) spinel-type nanocrystalline upconverting luminescent marker in HeLa carcinoma cells, using a combustion aerosol method route. <i>RSC Advances</i> , 2014, 4, 56596-56604.	3.6	29
17	Transport of NaYF ₄ :Er ³⁺ , Yb ³⁺ up-converting nanoparticles into HeLa cells. <i>Nanotechnology</i> , 2013, 24, 235702.	2.6	28
18	Upconversion fluorescence imaging of HeLa cells using ROS generating SiO ₂ -coated lanthanide-doped NaYF ₄ nanoconstructs. <i>RSC Advances</i> , 2017, 7, 30262-30273.	3.6	27

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19	Exciton Spectroscopy of Single CdTe and CdMnTe Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 229, 493-496.	1.5	23
20	The growth kinetics of colloidal ZnO nanoparticles in alcohols. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 197-205.	2.4	20
21	Magnetic field-induced spin reorientation in gadolinium surface layer of Gd/Fe multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 186, 139-153.	2.3	19
22	Exciton spin relaxation in quasiresonantly excited CdTe-ZnTe self-assembled quantum dots. <i>Physical Review B</i> , 2004, 70, .	3.2	19
23	Mammalian cell defence mechanisms against the cytotoxicity of NaYF ₄ : (Er, Yb, Gd) nanoparticles. <i>Nanoscale</i> , 2017, 9, 14259-14271.	5.6	18
24	Stark spectroscopy and radiative lifetimes in single self-assembled CdTe quantum dots. <i>Physical Review B</i> , 2011, 83, .	3.2	17
25	Application of in situ surface scraping for extracting bulk component of XPS signal – example of LiNbO ₃ and GaSb. <i>Journal of Alloys and Compounds</i> , 1999, 286, 162-166.	5.5	16
26	Light- and environment-sensitive electrospun ZnO nanofibers. <i>RSC Advances</i> , 2013, 3, 5656.	3.6	16
27	Single-step synthesis of Er ³⁺ and Yb ³⁺ ions doped molybdate/Gd ₂ O ₃ core-shell nanoparticles for biomedical imaging. <i>Nanotechnology</i> , 2018, 29, 025702.	2.6	16
28	Optical study of electron-electron exchange interaction in CdTe/ZnTe quantum dots. <i>Physical Review B</i> , 2013, 87, .	3.2	15
29	Ga _{1-x} Al _x As purification during its liquid phase epitaxial growth in the presence of Yb. <i>Applied Physics Letters</i> , 1989, 54, 700-702.	3.3	14
30	2D and 1D electron transport in hybrid ferromagnet–semiconductor microstructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 10, 91-96.	2.7	14
31	FMR and SMFMR investigation of epitaxial Fe/GaAs(001) thin films with Si and Ge overlayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 260, 386-392.	2.3	13
32	Study of Fe/Si multilayers by photoemission spectroscopy. <i>Journal of Alloys and Compounds</i> , 2004, 362, 202-205.	5.5	13
33	Influence of exciton spin relaxation on the photoluminescence spectra of semimagnetic quantum dots. <i>Physical Review B</i> , 2013, 87, .	3.2	13
34	The ROS-generating photosensitizer-free NaYF ₄ :Yb,Tm@SiO ₂ upconverting nanoparticles for photodynamic therapy application. <i>Nanotechnology</i> , 2021, 32, 475101.	2.6	13
35	Photoluminescence and Thermoluminescence of the Oxygen-Deficient YAG, YAP, and YAM Phosphors. <i>Acta Physica Polonica A</i> , 2018, 133, 977-980.	0.5	11
36	XPS analysis of surface compositional changes in InSb _{1-x} B _x (111) due to low-energy Ar+ ion bombardment. <i>Applied Surface Science</i> , 2000, 153, 193-199.	6.1	10

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37	Magnetic anisotropy and magnetoelastic constants of ultrathin Fe/GaAs(001) films sputtered in hydrogen atmosphere. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 283, 28-33.	2.3	10
38	Tuning the inter-shell splitting in self-assembled CdTe quantum dots. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	10
39	Thermoluminescent properties of Mn-doped YAP synthesized by the solution combustion method. <i>Optical Materials</i> , 2014, 37, 125-131.	3.6	10
40	The synthesis, characterization and ZnS surface passivation of polycrystalline ZnO films obtained by the spin-coating method. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1196-1204.	5.5	10
41	Structural, optical and magnetic properties of $\text{Y}_{3-x}\text{Er}_{0.02}\text{Al}_5\text{O}_{12}$ ($0 \leq x \leq 0.20$) nanocrystals: effect of Yb content. <i>Nanotechnology</i> , 2020, 31, 225711.	2.6	10
42	Inelastic cross-sections and natural lifetimes for the $62\text{D}3/2$, $5/2$ and $82\text{S}1/2$ states of Rb. <i>European Physical Journal D</i> , 2000, 8, 49-58.	1.3	9
43	Microluminescence from a diluted magnetic semiconductor quantum well in a proximity of an iron micromagnet. <i>Solid State Communications</i> , 2001, 120, 35-39.	1.9	9
44	Conductivity switching effect in $\text{Cd}_{1-x}\text{ZnxTe}$ films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 1197-1200.	0.8	9
45	Quantum nanostructures of paraelectric PbTe. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 35, 332-337.	2.7	9
46	Luminescence of colloidal ZnO nanoparticles synthesized in alcohols and biological application of ZnO passivated by MgO. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 194104.	1.8	9
47	Electrical Conduction of a Single Electrospun ZnO Nanofiber. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1157-1163.	3.8	9
48	Optically detected impact-ionization-related chaotic oscillations in $\text{Ga}_{0.47}\text{In}_{0.53}\text{As}$. <i>Physical Review B</i> , 1991, 44, 8357-8360.	3.2	8
49	Magnetic-resonance studies of tellurium-doped $\text{Al}_{x}\text{Ga}_{1-x}\text{As}$. <i>Physical Review B</i> , 1994, 50, 2645-2648.	3.2	7
50	Thickness dependence of magnetic anisotropy and magnetoelastic constants in epitaxial Fe/GaAs (001) thin films. <i>European Physical Journal D</i> , 2002, 52, A169-A172.	0.4	7
51	Synthesis and magnetooptic characterization of Cu-doped ZnO/MgO and ZnO/oleic acid core/shell nanoparticles. <i>RSC Advances</i> , 2016, 6, 44820-44825.	3.6	7
52	Devitrification of thin film Cu-Zr metallic glass via ultrashort pulsed laser annealing. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161437.	5.5	7
53	Influence of Configuration Mixing on Energies and Recombination Dynamics of Excitonic States in CdTe/ZnTe Quantum Dots. <i>Acta Physica Polonica A</i> , 2011, 119, 615-617.	0.5	7
54	Formation of noncollinear spin configurations during magnetization reversal in multilayered Fe/Si films. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 213, 19-24.	2.3	6

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55	Orientation and layer thickness dependence on the longitudinal magnetization and transverse magnetization hysteresis loops of sputtered multilayer Fe/Si and Fe/Ge thin films. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 4121-4129.		1.8	6
56	Magnetic stripe domains in Fe/Fe ^N multilayers. <i>Journal of Alloys and Compounds</i> , 2006, 423, 172-175.		5.5	6
57	Technology of ZnO nanofibers based devices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 1299-1303.		3.5	6
58	Magnetostriction of Fe/Gd multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 139, 157-161.		2.3	6
59	Thickness dependence of cubic anisotropy constant in sputtered Fe films on GaAs substrates. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1237-1238.		2.7	5
60	Magnetoresistance measurements on Fe/Si and Fe/Ge multilayer thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 286, 91-94.		2.3	5
61	Study of crystalline thin films and nanofibers by means of the laser-EUV-source based microscopy. <i>Radiation Physics and Chemistry</i> , 2013, 93, 54-58.		2.8	5
62	Novel ZnO/MgO/Fe ₂ O ₃ composite optomagnetic nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 194105.		1.8	5
63	Synthesis and characterization of Gd ₂ O ₃ : Er ³⁺ , Yb ³⁺ doped with Mg ²⁺ , Li ⁺ ions effect on the photoluminescence and biological applications. <i>Nanotechnology</i> , 2021, 32, 245705.		2.6	5
64	Photoluminescence Properties of ZnO and ZnCdO Nanowires. <i>Acta Physica Polonica A</i> , 2007, 112, 357-362.		0.5	5
65	Photoluminescence Properties of ZnO Nanowires Grown on Ni Substrate. <i>Acta Physica Polonica A</i> , 2008, 114, 1451-1456.		0.5	5
66	FMR Investigation of In-Plane Magnetic Anisotropy and Interlayer Coupling in Fe/Si/Fe Trilayers. <i>Materials Science Forum</i> , 2001, 373-376, 141-144.		0.3	4
67	1/4-Luminescence study of hybrid ferromagnet/diluted magnetic semiconductor quantum structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 560-563.		2.7	4
68	Interlayer Magnetic Coupling for Fe/Si Multilayers. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003, 16, 205-208.		0.5	4
69	Unidirectional transmission of electrons in a magnetic field gradient. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 451-455.		2.7	4
70	0.7 anomaly and magnetotransport of disordered quantum wires. <i>Europhysics Letters</i> , 2008, 82, 27003.		2.0	4
71	<title>Liquid-phase epitaxial growth and characterization of In(Sb,Bi)</title>. , 1999, , .			3
72	Excitation transfer between the rubidium 52D fine-structure levels in collisions with ground-state rubidium atoms: Experiment and theory. <i>Physical Review A</i> , 2000, 62, .		2.5	3

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73	Magneto-optical studies of the H-T phase diagram of an Fe/Si multilayered film. <i>Low Temperature Physics</i> , 2001, 27, 655-661.	0.6	3
74	Noncollinear magnetic structures in an Fe/Si/Fe film with a ferromagnetic interlayer exchange interaction. <i>Low Temperature Physics</i> , 2002, 28, 639-641.	0.6	3
75	Structural studies of magnetic Fe doped ZnO nanofibers. <i>Radiation Physics and Chemistry</i> , 2013, 93, 21-24.	2.8	3
76	Morphology and Selected Properties of Core/Shell ZnTe-Based Nanowire Structures Containing ZnO. <i>Acta Physica Polonica A</i> , 2011, 119, 612-614.	0.5	3
77	Optical studies of spin relaxation in CdTe self-assembled quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 937-940.	0.8	2
78	Quantum effects in linear and nonlinear transport of T-shaped ballistic junction patterned from GaAs/Al _x Ga _{1-x} As heterostructures. <i>Physical Review B</i> , 2010, 81, .	3.2	2
79	Stability of ZnO nanofibers in processing liquid agents. <i>Materials Science-Poland</i> , 2013, 31, 312-317.	1.0	2
80	Stark spectroscopy of CdTe and CdMnTe quantum dots embedded in n-i-p diodes. <i>Journal of Applied Physics</i> , 2014, 115, 203512.	2.5	2
81	Engineering the hole confinement for CdTe-based quantum dot molecules. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	2
82	Fluorescence resonance energy transfer between ZnO/MgO/carboxymethyl- β -cyclodextrin and Nile Red in HeLa cells – biosensing applications. <i>RSC Advances</i> , 2015, 5, 1323-1330.	3.6	2
83	FMR and SMFMR study of Fe/Si multilayers. <i>European Physical Journal Special Topics</i> , 1998, 08, Pr2-249-Pr2-252.	0.2	2
84	Mechanical and Electrical Properties of ZnO-Nanowire/Si-Substrate Junctions Studied by Scanning Probe Microscopy. <i>Acta Physica Polonica A</i> , 2007, 112, 255-260.	0.5	2
85	Physical Properties of ZnCoO Tetrapods and Nanofibers. <i>Acta Physica Polonica A</i> , 2009, 116, 868-870.	0.5	2
86	Spectroscopy of Indirect Excitons in Vertically Stacked CdTe Quantum Dot Structures. <i>Acta Physica Polonica A</i> , 2011, 120, 856-858.	0.5	2
87	Native Defects in Gallium Arsenide Grown by Synthesis, Solute Diffusion Method. <i>Acta Physica Polonica A</i> , 1991, 80, 349-352.	0.5	2
88	Observation of Two-Dimensional Electron Gas in LPE-Grown GaInAs-InP Heterostructures. <i>Acta Physica Polonica A</i> , 1991, 80, 449-452.	0.5	2
89	Optical detection of chaotic oscillations owing to impact ionization of donors by hot carriers in GaInAs. <i>Semiconductor Science and Technology</i> , 1992, 7, B483-B485.	2.0	1
90	Low temperature enhancement of the magnetic anisotropy in Fe/Si multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 83-84.	2.3	1

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91	Spontaneous and field-induced magnetic configurations in a Fe/Si/Fe trilayer with ferromagnetic interlayer exchange. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 8969-8977.	1.8	1
92	Temperature dependences of surface magnetoelastic constants of ultrathin Fe/GaAs (001) films. <i>Low Temperature Physics</i> , 2012, 38, 839-842.	0.6	1
93	Surface potential measurements of a single ZnO nanofiber. , 2012, , .		1
94	Surface defect states in MBE-grown CdTe layers. , 2014, , .		1
95	Imaging in Nanoscale Using Laser-Plasma Sources of Extreme Ultraviolet (EUV). <i>Springer Proceedings in Physics</i> , 2014, , 269-276.	0.2	1
96	Thermal index guiding in (AlGa)As proton-isolated lasers: its origins and reduction by post-implantation heat treatment. <i>IEE Proceedings, Part J: Optoelectronics</i> , 1991, 138, 13.	0.4	1
97	Magnetoplasmons in a High Electron Mobility GaAs/AlGaAs Heterostructure. <i>Acta Physica Polonica A</i> , 2012, 122, 1096-1098.	0.5	1
98	Noncollinear spin configuration induced by a magnetic field in the surface gadolinium layer of multilayered Gd/Fe films. <i>Low Temperature Physics</i> , 1997, 23, 346-348.	0.6	0
99	Fine-structure mixing collisions of Rb(52D) excited in a two-photon transition using external-cavity cw diode laser. , 1999, 3571, 200.		0
100	Magneto-Optical Investigation of H-T Phase Diagram in Fe/Si Multilayers. <i>Materials Science Forum</i> , 2001, 373-376, 489-492.	0.3	0
101	Resonant photoluminescence and excitation spectroscopy of CdSe/ZnSe and CdTe/ZnTe self-assembled quantum dots. <i>Materials Research Society Symposia Proceedings</i> , 2002, 737, 248.	0.1	0
102	Publisher's Note: Exciton spin relaxation in quasiresonantly excited CdTe/ZnTe self-assembled quantum dots [Phys. Rev. B70, 245312 (2004)]. <i>Physical Review B</i> , 2004, 70, .	3.2	0
103	Morphology Of CdTe/ZnTe Self-Assembled Quantum Dots Studied By Excitation Spectroscopy. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
104	Double-frequency external cavity laser with a singular optical semiconductor amplifier. <i>Opto-electronics Review</i> , 2009, 17, .	2.4	0
105	Tunable Resonant Detection of sub-THz Radiation with GaAs $\text{As}_x\text{Ga}_{1-x}$ /AlGaAs High Electron Mobility Transistors at Magnetic Fields. , 2011, , .		0
106	Synthesis and properties of nanocoral ZnO structures. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1552, 113-118.	0.1	0
107	Optical signatures of spin-dependent coupling in semimagnetic quantum dot molecules. <i>Physical Review B</i> , 2015, 92, .	3.2	0
108	Photoluminescence study of the increased hole confinement in CdTe quantum dots (Presentation) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	0.8	

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109	Preliminary Measurements of Magnetic Nanoparticles as Potential Biomarkers for Impedance Flow Cytometry.,, 2018, ,.	0	0
110	Copper Doping of Low-Dimensional Se-Based Semiconductor Structures Grown by Molecular Beam Epitaxy. Journal of Physical Chemistry C, 2019, 123, 19938-19944.	3.1	0
111	Influence of copper dopants on the photoluminescence of single CdTe quantum dots. Journal of Applied Physics, 2020, 127, 024306.	2.5	0
112	Atomic Force Microscopy Study of a Voltage Effect on CdZnTe Crystal Dimensions. Acta Physica Polonica A, 2008, 114, 1041-1047.	0.5	0
113	Magnetic Force Microscopy Study of Zn _{1-x} CoxO Nanowires Grown by Rapid Thermal Evaporation. Acta Physica Polonica A, 2009, 116, 865-867.	0.5	0
114	Impact Ionization Driven Chaotic Photoluminescence Oscillations in Ga _{0.47} In _{0.53} As. Acta Physica Polonica A, 1991, 80, 271-274.	0.5	0
115	Optically Detected Magnetic Resonance Studies of Te-Related Shallow Donors in Al _x Ga _{1-x} As. Acta Physica Polonica A, 1991, 80, 341-344.	0.5	0
116	Photo-ESR Study of the DX to Shallow Donor Conversion in Te Doped Al _x Ga _{1-x} As. Acta Physica Polonica A, 1993, 84, 757-760.	0.5	0