

Tomasz Tw Wojciechowski

List of Publications by Year in descending order

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97
papers

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citations

361045

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all docs

97
docs citations

97
times ranked

1873
citing authors

#	ARTICLE	IF	CITATIONS
1	Bi incorporation and segregation in the MBE-grown GaAs-(Ga,Al)As-Ga(As,Bi) core-shell nanowires. Scientific Reports, 2022, 12, 6007.	1.6	1
2	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. Nanotechnology, 2021, 32, 245705.	1.3	5
3	Excitation efficiency determines the upconversion luminescence intensity of $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$ across the topological transition in $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$. Physical Review B, 2021, 103.	1.1	7
4	The ROS-generating photosensitizer-free NaYF ₄ :Yb,Tm@SiO ₂ upconverting nanoparticles for photodynamic therapy application. Nanotechnology, 2021, 32, 475101.	1.3	13
5	Excitation efficiency determines the upconversion luminescence intensity of $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$ nanoparticles in magnetic fields up to 70 T. Nanoscale, 2020, 12, 20300-20307.	2.8	15
6	Enhancement of mechanical properties of vertically aligned carbon nanotube arrays due to N ⁺ ion irradiation. Nanotechnology, 2020, 31, 285703.	1.3	3
7	Structural, optical and magnetic properties of Y _{3-0.02x} Er _{0.02} Yb _x Al ₅ O ₁₂ (0 ≤ x ≤ 0.20) nanocrystals: effect of Yb content. Nanotechnology, 2020, 31, 225711.	1.3	10
8	Yttrium-Doped Iron Oxide Nanoparticles for Magnetic Hyperthermia Applications. Journal of Physical Chemistry C, 2020, 124, 6871-6883.	1.5	44
9	Conductance spectra of (Nb, Pb, In)/NbP superconductor/Weyl semimetal junctions. Physical Review B, 2020, 101, .	1.1	9
10	Unmodified Rose Bengal photosensitizer conjugated with NaYF ₄ :Yb,Er upconverting nanoparticles for efficient photodynamic therapy. Nanotechnology, 2020, 31, 465101.	1.3	21
11	Conductance resonances and crossing of the edge channels in the quantum Hall ferromagnetic state of Cd(Mn)Te microstructures. Physical Review B, 2019, 99, .	1.1	1
12	Sodium dodecyl sulfate microaggregates with diversely developed surfaces: Formation from free microdroplets of colloidal suspension. European Physical Journal Plus, 2019, 134, 1.	1.2	3
13	Application of a linear electrodynamic quadrupole trap for production of nanoparticle aggregates from drying microdroplets of colloidal suspension. Journal of Instrumentation, 2019, 14, P12007-P12007.	0.5	4
14	The photocatalytic activity of rutile and anatase TiO ₂ electrodes modified with plasmonic metal nanoparticles followed by photoelectrochemical measurements. Catalysis Today, 2019, 321-322, 52-58.	2.2	22
15	Single-step synthesis of Er ³⁺ and Yb ³⁺ ions doped molybdate/Gd ₂ O ₃ core-shell nanoparticles for biomedical imaging. Nanotechnology, 2018, 29, 025702.	1.3	16
16	Influence of Cu coating of SiC particles on mechanical properties of Ni/SiC co-electrodeposited composites. Ceramics International, 2018, 44, 21750-21758.	2.3	23
17	Application of dynamic light scattering for studying the evolution of micro- and nano-droplets. , 2018, , .		2
18	Submicron Colloidosomes of Tunable Size and Wall Thickness. Langmuir, 2017, 33, 1725-1731.	1.6	12

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19	Wurtzite (Ga,Mn)As nanowire shells with ferromagnetic properties. <i>Nanoscale</i> , 2017, 9, 2129-2137.	2.8	15
20	The effect of metal coatings on the interfacial bonding strength of ceramics to copper in sintered Cu-SiC composites. <i>Ceramics International</i> , 2017, 43, 5283-5291.	2.3	27
21	Controlling the nanoscale morphology and structure of the ZnO/MnO ₂ system for efficient transparent supercapacitors. <i>MRS Communications</i> , 2017, 7, 173-178.	0.8	5
22	Room temperature sputter deposited catalyst-free nanowires with wurtzite/zinc blende ZnO superstructure and their application in electromechanical nanogenerators on polymer and paper substrates. <i>Nanotechnology</i> , 2017, 28, 085204.	1.3	5
23	Geometrical complexity of the antidots unit cell effect on the spin wave excitations spectra. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 185003.	1.3	10
24	Highly transparent supercapacitors based on ZnO/MnO ₂ nanostructures. <i>Nanoscale</i> , 2017, 9, 7577-7587.	2.8	41
25	Efficiency Improvement in Co-sensitized DSSCs Through a Cascade Band Alignment of N-719 and Rose Bengal Dyes on Nanostructured ZnO Photoanodes. <i>MRS Advances</i> , 2017, 2, 767-775.	0.5	0
26	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.	1.7	27
27	Magnetization reversal mechanism in patterned (square to wave-like) Py antidot lattices. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 025004.	1.3	10
28	Mammalian cell defence mechanisms against the cytotoxicity of NaYF ₄ :(Er,Yb,Gd) nanoparticles. <i>Nanoscale</i> , 2017, 9, 14259-14271.	2.8	18
29	Communicationâ€”Continuous Monitoring of Activity of Plasmonic Gold Nanoparticles over Photooxidation Reactions Carried-Out on Au/TiO ₂ Photocatalysts. <i>Journal of the Electrochemical Society</i> , 2017, 164, H667-H669.	1.3	2
30	Exploiting nonlinear properties of pure and Sn-doped Bi ₂ Te ₂ Se for passive Q-switching of all-polarization maintaining ytterbium- and erbium-doped fiber lasers. <i>Scientific Reports</i> , 2017, 7, 7428.	1.6	8
31	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.	2.8	10
32	TEM Study of the Structural Properties of Nanowires Based on Cd, Zn, Te grown by MBE on Silicon Substrates. <i>Acta Physica Polonica A</i> , 2017, 131, 1399-1405.	0.2	4
33	Tuning Transparent Supercapacitor Performance by Controlling the Morphology of its ZnO Electrodes. <i>Acta Physica Polonica A</i> , 2017, 131, 1550-1553.	0.2	3
34	Evaporation-Driven Aggregation of Nanoparticles in a Free Droplet: Spherical Symmetry in Nanostructured Material. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2017, , 477-479.	0.2	0
35	Characterization of non-vertically aligned semiconductor nanowires by THz emission measurements. , 2016, , .		0
36	Influence of absolute argon and oxygen flow values at a constant ratio on the growth of Zn/ZnO nanostructures obtained by DC reactive magnetron sputtering. <i>Applied Surface Science</i> , 2016, 389, 287-293.	3.1	22

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37	Thermally activated decomposition of (Ga,Mn)As thin layer at medium temperature post growth annealing. Journal of Physics: Conference Series, 2016, 712, 012114.	0.3	1
38	Sn and Cu oxide nanoparticles deposited on TiO ₂ nanoflower 3D substrates by Inert Gas Condensation technique. Applied Surface Science, 2016, 380, 193-202.	3.1	25
39	Dye Aggregation Influence on Dye Sensitized Solar Cell Performance in Nanocoral ZnO-Based Thin Film Cells Sensitized with N-719 and Rose Bengal Dyes. Acta Physica Polonica A, 2016, 130, 1187-1189.	0.2	2
40	Rietveld refinement of the structure of copper indium diselenide. X-Ray Spectrometry, 2015, 44, 379-381.	0.9	2
41	Spin Splitting Anisotropy in Single Diluted Magnetic Nanowire Heterostructures. Nano Letters, 2015, 15, 1972-1978.	4.5	19
42	The measurement of the adhesion force between ceramic particles and metal matrix in ceramic reinforced-metal matrix composites. Composites Part A: Applied Science and Manufacturing, 2015, 76, 124-130.	3.8	34
43	Structural and magnetic properties of hybrid ferromagnetic metal/semiconductor (ZnTe)/Co core-shell nanowires. Journal of Crystal Growth, 2015, 412, 80-86.	0.7	2
44	Formation of Highly Ordered Spherical Aggregates from Drying Microdroplets of Colloidal Suspension. Langmuir, 2015, 31, 7860-7868.	1.6	32
45	Fluorescence resonance energy transfer between ZnO/MgO/carboxymethyl- β -cyclodextrin and Nile Red in HeLa cells – biosensing applications. RSC Advances, 2015, 5, 1323-1330.	1.7	2
46	Magnetic and Structural Study of (ZnTe)/Co Core-Shell Nanowires Grown by Molecular Beam Epitaxy. Acta Physica Polonica A, 2015, 127, 517-519.	0.2	0
47	Terahertz magneto-spectroscopy of a point contact based on CdTe/CdMgTe quantum well. Journal of Nanophotonics, 2015, 9, 093082.	0.4	4
48	Upconverting/magnetic: Gd ₂ O ₃ :(Er ³⁺ , Yb ³⁺ , Zn ²⁺) nanoparticles for biological applications: effect of Zn ²⁺ doping. RSC Advances, 2015, 5, 78361-78373.	1.7	33
49	Terahertz magnetospectroscopy of a point contact based on CdTe/CdMgTe quantum well. Proceedings of SPIE, 2014, , .	0.8	2
50	Low Temperature Processing of Nanostructures Based on II-VI Semiconductors Quantum Wells. Acta Physica Polonica A, 2014, 126, 1174-1176.	0.2	4
51	ZnO - Wide Bandgap Semiconductor and Possibilities of Its Application in Optical Waveguide Structures. Metrology and Measurement Systems, 2014, 21, 401-412.	1.4	8
52	Investigation of Porous Zn Growth Mechanism during Zn Reactive Sputter Deposition. Acta Physica Polonica A, 2014, 125, 1144-1148.	0.2	4
53	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. RSC Advances, 2014, 4, 56596-56604.	1.7	29
54	Effect of catalyst diameter on vapour-liquid-solid growth of GaAs nanowires. Journal of Applied Physics, 2014, 116, 063509.	1.1	5

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55	Strain-induced energy gap variation in ZnTe/ZnMgTe core/shell nanowires. Applied Physics Letters, 2014, 104, .	1.5	13
56	Diffusion and impurity segregation in hydrogen-implanted silicon carbide. Journal of Applied Physics, 2014, 115, .	1.1	26
57	Morphological changes of gold nanoparticles due to adsorption onto silicon substrate and oxygen plasma treatment. RSC Advances, 2014, 4, 12729-12736.	1.7	14
58	Thermal expansion of CuInSe ₂ in the 11â€“1,073ÂK range: an X-ray diffraction study. Applied Physics A: Materials Science and Processing, 2014, 116, 767-780.	1.1	15
59	Strong spâ€“d exchange coupling in ZnMnTe/ZnMgTe core/shell nanowires. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1308-1311.	0.8	1
60	All-Wurtzite (In,Ga)As-(Ga,Mn)As Coreâ€“Shell Nanowires Grown by Molecular Beam Epitaxy. Nano Letters, 2014, 14, 4263-4272.	4.5	29
61	Influence of silver thickness on optical properties of metal island films fabricated by physical vapour deposition. , 2014, , .		1
62	Nanocoral ZnO films fabricated on flexible poly(vinyl chloride) using a carrier substrate. Thin Solid Films, 2014, 550, 145-148.	0.8	1
63	Photoluminescence of nanocoral ZnO films. Journal of Luminescence, 2014, 147, 367-371.	1.5	11
64	Transport of NaYF ₄ :Er ³⁺ , Yb ³⁺ up-converting nanoparticles into HeLa cells. Nanotechnology, 2013, 24, 235702.	1.3	28
65	Nanoparticles in a Capillary Trap: Dynamic Self-Assembly at Fluid Interfaces. ACS Nano, 2013, 7, 8833-8839.	7.3	42
66	Structural and optical properties of self-catalytic GaAs:Mn nanowires grown by molecular beam epitaxy on silicon substrates. Nanoscale, 2013, 5, 7410.	2.8	17
67	Synthesis and properties of nanocoral ZnO structures. Materials Research Society Symposia Proceedings, 2013, 1552, 113-118.	0.1	0
68	Evidence for charging effects in CdTe/CdMgTe quantum point contacts. Physical Review B, 2012, 86, .	1.1	7
69	Giant Spin Splitting in Optically Active ZnMnTe/ZnMgTe Core/Shell Nanowires. Nano Letters, 2012, 12, 3404-3409.	4.5	32
70	Close-packed monolayers of charged Janus-type nanoparticles at the airâ€“water interface. Journal of Colloid and Interface Science, 2012, 375, 180-186.	5.0	45
71	Autonomous Selfâ€“Assembly of Ionic Nanoparticles into Hexagonally Closeâ€“Packed Lattices at a Planar Oilâ€“Water Interface. Chemistry - A European Journal, 2012, 18, 2235-2238.	1.7	10
72	Terahertz Response of a Point Contact Based on CdTe/CdMgTe Quantum Well in Magnetic Field. Acta Physica Polonica A, 2012, 122, 1069-1072.	0.2	1

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73	Ionic Strength-Controlled Deposition of Charged Nanoparticles on a Solid Substrate. Journal of Physical Chemistry C, 2011, 115, 19096-19103.	1.5	40
74	Supramolecular versatility in the solid-state complexes of para-sulphonatocalix[4]arene with phenanthroline. CrystEngComm, 2011, 13, 3265.	1.3	17
75	Gold Micro-Flowers: One-Step Fabrication of Efficient, Highly Reproducible Surface-Enhanced Raman Spectroscopy Platform. Plasmonics, 2011, 6, 697-704.	1.8	23
76	GaAs ⁺ MnAs nanowires. Physica Status Solidi (B): Basic Research, 2011, 248, 1576-1580.	0.7	12
77	Selected optical properties of core/shell ZnMnTe/ZnO nanowire structures. Physica Status Solidi (B): Basic Research, 2011, 248, 1592-1595.	0.7	10
78	Back Cover: GaAs-MnAs nanowires (Phys. Status Solidi B 7/2011). Physica Status Solidi (B): Basic Research, 2011, 248, n/a-n/a.	0.7	0
79	Structural and magnetic properties of GaSb:MnSb granular layers. Radiation Physics and Chemistry, 2011, 80, 1051-1057.	1.4	5
80	Electronic Properties of Thin HfO ₂ Films Fabricated by Atomic Layer Deposition on 4H-SiC. Acta Physica Polonica A, 2011, 119, 696-698.	0.2	25
81	Spectroscopy of Indirect Excitons in Vertically Stacked CdTe Quantum Dot Structures. Acta Physica Polonica A, 2011, 120, 856-858.	0.2	2
82	Ferroelectric gate effect in modulation doped CdTe/CdMgTe quantum wells. , 2010, , .		0
83	Influence of the electrical conductivity on magnetic properties of CdZnMnTe epitaxial layers. , 2010, , .		0
84	Defect Free PbTe Nanowires Grown by Molecular Beam Epitaxy on GaAs(111)B Substrates. Crystal Growth and Design, 2010, 10, 109-113.	1.4	18
85	Defect Structure of High-Temperature-Grown GaMnSb/GaSb. Acta Physica Polonica A, 2010, 117, 341-343.	0.2	8
86	Fabrication, Processing and Characterization of Thin Film ZnO for Integrated Optical Gas Sensors. Materials Research Society Symposia Proceedings, 2009, 1201, 108.	0.1	1
87	Structural properties of (Ga,Mn)Sb thin films on GaAs(111)A substrate. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2792-2794.	0.8	0
88	HREM studies of twins in Cd _{1-x} Zn _x Te (x ^o 0.04) thin films grown by molecular beam epitaxy. Journal of Alloys and Compounds, 2009, 484, 757-762.	2.8	15
89	Physical Properties of ZnCoO Tetrapods and Nanofibers. Acta Physica Polonica A, 2009, 116, 868-870.	0.2	2
90	Magnetic Force Microscopy Study of Zn _{1-x} CoxO Nanowires Grown by Rapid Thermal Evaporation. Acta Physica Polonica A, 2009, 116, 865-867.	0.2	0

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91	Ferroelectric Field Effect Transistor Based on Modulation Doped CdTe/CdMgTe Quantum Wells. Acta Physica Polonica A, 2008, 114, 1173-1178.	0.2	5
92	Ferroelectricity in Ternary (CdZn)AVI Crystals. Journal of the Korean Physical Society, 2008, 53, 23-27.	0.3	3
93	Atomic Force Microscopy Study of a Voltage Effect on CdZnTe Crystal Dimensions. Acta Physica Polonica A, 2008, 114, 1041-1047.	0.2	0
94	Quantum Well ZnCdTe/CdTe Structures with Integrated Ferroelectric Gates. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	1
95	Conductivity switching effect in Cd $_{1-x}$ Zn $_x$ Te films. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1197-1200.	0.8	9
96	Nonvolatile Gate Effect in a Ferroelectric-Semiconductor Quantum Well. Physical Review Letters, 2006, 97, 247601.	2.9	11
97	Time-resolved optical absorption in YAlO ₃ crystals. Radiation Measurements, 2004, 38, 371-374.	0.7	3