

# Tomasz Tw Wojciechowski

## List of Publications by Year in descending order

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97  
papers

1,129  
citations

361045

20  
h-index

500791

28  
g-index

97  
all docs

97  
docs citations

97  
times ranked

1873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Close-packed monolayers of charged Janus-type nanoparticles at the air-water interface. <i>Journal of Colloid and Interface Science</i> , 2012, 375, 180-186.	5.0	45
2	Yttrium-Doped Iron Oxide Nanoparticles for Magnetic Hyperthermia Applications. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6871-6883.	1.5	44
3	Nanoparticles in a Capillary Trap: Dynamic Self-Assembly at Fluid Interfaces. <i>ACS Nano</i> , 2013, 7, 8833-8839.	7.3	42
4	Highly transparent supercapacitors based on ZnO/MnO <sub>2</sub> nanostructures. <i>Nanoscale</i> , 2017, 9, 7577-7587.	2.8	41
5	Ionic Strength-Controlled Deposition of Charged Nanoparticles on a Solid Substrate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19096-19103.	1.5	40
6	The measurement of the adhesion force between ceramic particles and metal matrix in ceramic reinforced-metal matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 76, 124-130.	3.8	34
7	Upconverting/magnetic: Gd <sub>2</sub> O <sub>3</sub> :(Er <sup>3+</sup> , Yb <sup>3+</sup> , Zn <sup>2+</sup> ) nanoparticles for biological applications: effect of Zn <sup>2+</sup> doping. <i>RSC Advances</i> , 2015, 5, 78361-78373.	1.7	33
8	Giant Spin Splitting in Optically Active ZnMnTe/ZnMgTe Core/Shell Nanowires. <i>Nano Letters</i> , 2012, 12, 3404-3409.	4.5	32
9	Formation of Highly Ordered Spherical Aggregates from Drying Microdroplets of Colloidal Suspension. <i>Langmuir</i> , 2015, 31, 7860-7868.	1.6	32
10	Synthesis of ZnAl <sub>2</sub> O <sub>4</sub> :(Er <sup>3+</sup> , Yb <sup>3+</sup> ) spinel-type nanocrystalline upconverting luminescent marker in HeLa carcinoma cells, using a combustion aerosol method route. <i>RSC Advances</i> , 2014, 4, 56596-56604.	1.7	29
11	All-Wurtzite (In,Ga)As-(Ga,Mn)As Core-Shell Nanowires Grown by Molecular Beam Epitaxy. <i>Nano Letters</i> , 2014, 14, 4263-4272.	4.5	29
12	Transport of NaYF <sub>4</sub> :Er <sup>3+</sup> , Yb <sup>3+</sup> up-converting nanoparticles into HeLa cells. <i>Nanotechnology</i> , 2013, 24, 235702.	1.3	28
13	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
14	Upconversion fluorescence imaging of HeLa cells using ROS generating SiO <sub>2</sub> -coated lanthanide-doped NaYF <sub>4</sub> nanoconstructs. <i>RSC Advances</i> , 2017, 7, 30262-30273.	1.7	27
15	Diffusion and impurity segregation in hydrogen-implanted silicon carbide. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	26
16	Sn and Cu oxide nanoparticles deposited on TiO <sub>2</sub> nanoflower 3D substrates by Inert Gas Condensation technique. <i>Applied Surface Science</i> , 2016, 380, 193-202.	3.1	25
17	Electronic Properties of Thin HfO <sub>2</sub> Films Fabricated by Atomic Layer Deposition on 4H-SiC. <i>Acta Physica Polonica A</i> , 2011, 119, 696-698.	0.2	25
18	Gold Micro-Flowers: One-Step Fabrication of Efficient, Highly Reproducible Surface-Enhanced Raman Spectroscopy Platform. <i>Plasmonics</i> , 2011, 6, 697-704.	1.8	23

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19	Influence of Cu coating of SiC particles on mechanical properties of Ni/SiC co-electrodeposited composites. <i>Ceramics International</i> , 2018, 44, 21750-21758.	2.3	23
20	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
21	The photocatalytic activity of rutile and anatase TiO <sub>2</sub> electrodes modified with plasmonic metal nanoparticles followed by photoelectrochemical measurements. <i>Catalysis Today</i> , 2019, 321-322, 52-58.	2.2	22
22	Unmodified Rose Bengal photosensitizer conjugated with NaYF <sub>4</sub> :Yb,Er upconverting nanoparticles for efficient photodynamic therapy. <i>Nanotechnology</i> , 2020, 31, 465101.	1.3	21
23	Spin Splitting Anisotropy in Single Diluted Magnetic Nanowire Heterostructures. <i>Nano Letters</i> , 2015, 15, 1972-1978.	4.5	19
24	Defect Free PbTe Nanowires Grown by Molecular Beam Epitaxy on GaAs(111)B Substrates. <i>Crystal Growth and Design</i> , 2010, 10, 109-113.	1.4	18
25	Mammalian cell defence mechanisms against the cytotoxicity of NaYF <sub>4</sub> :(Er,Yb,Gd) nanoparticles. <i>Nanoscale</i> , 2017, 9, 14259-14271.	2.8	18
26	Supramolecular versatility in the solid-state complexes of para-sulphonatocalix[4]arene with phenanthroline. <i>CrystEngComm</i> , 2011, 13, 3265.	1.3	17
27	Structural and optical properties of self-catalytic GaAs:Mn nanowires grown by molecular beam epitaxy on silicon substrates. <i>Nanoscale</i> , 2013, 5, 7410.	2.8	17
28	Single-step synthesis of Er <sup>3+</sup> and Yb <sup>3+</sup> ions doped molybdate/Gd <sub>2</sub> O <sub>3</sub> core-shell nanoparticles for biomedical imaging. <i>Nanotechnology</i> , 2018, 29, 025702.	1.3	16
29	HREM studies of twins in Cd <sub>1-x</sub> Zn <sub>x</sub> Te (x~0.04) thin films grown by molecular beam epitaxy. <i>Journal of Alloys and Compounds</i> , 2009, 484, 757-762.	2.8	15
30	Thermal expansion of CuInSe <sub>2</sub> in the 11-1,073 K range: an X-ray diffraction study. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 767-780.	1.1	15
31	Wurtzite (Ga,Mn)As nanowire shells with ferromagnetic properties. <i>Nanoscale</i> , 2017, 9, 2129-2137.	2.8	15
32	Excitation efficiency determines the upconversion luminescence intensity of $\text{Er}^{3+}$ , $\text{Yb}^{3+}$ nanoparticles in magnetic fields up to 70 T. <i>Nanoscale</i> , 2020, 12, 20300-20307.	2.8	15
33	Morphological changes of gold nanoparticles due to adsorption onto silicon substrate and oxygen plasma treatment. <i>RSC Advances</i> , 2014, 4, 12729-12736.	1.7	14
34	Strain-induced energy gap variation in ZnTe/ZnMgTe core/shell nanowires. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	13
35	The ROS-generating photosensitizer-free NaYF <sub>4</sub> :Yb,Tm@SiO <sub>2</sub> upconverting nanoparticles for photodynamic therapy application. <i>Nanotechnology</i> , 2021, 32, 475101.	1.3	13
36	GaAs/MnAs nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1576-1580.	0.7	12

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37	Submicron Colloidosomes of Tunable Size and Wall Thickness. Langmuir, 2017, 33, 1725-1731.	1.6	12
38	Nonvolatile Gate Effect in a Ferroelectric-Semiconductor Quantum Well. Physical Review Letters, 2006, 97, 247601.	2.9	11
39	Photoluminescence of nanocoral ZnO films. Journal of Luminescence, 2014, 147, 367-371.	1.5	11
40	Selected optical properties of core/shell ZnMnTe/ZnO nanowire structures. Physica Status Solidi (B): Basic Research, 2011, 248, 1592-1595.	0.7	10
41	Autonomous Self-Assembly of Ionic Nanoparticles into Hexagonally Close-Packed Lattices at a Planar Oil-Water Interface. Chemistry - A European Journal, 2012, 18, 2235-2238.	1.7	10
42	Geometrical complexity of the antidots unit cell effect on the spin wave excitations spectra. Journal Physics D: Applied Physics, 2017, 50, 185003.	1.3	10
43	Magnetization reversal mechanism in patterned (square to wave-like) Py antidot lattices. Journal Physics D: Applied Physics, 2017, 50, 025004.	1.3	10
44	The synthesis, characterization and ZnS surface passivation of polycrystalline ZnO films obtained by the spin-coating method. Journal of Alloys and Compounds, 2017, 695, 1196-1204.	2.8	10
45	Structural, optical and magnetic properties of $Y_{3\pm 0.02}Er_{0.02}Yb_{\pm 0.02}Al_5O_{12}$ ( $0 \leq x \leq 0.20$ ) nanocrystals: effect of Yb content. Nanotechnology, 2020, 31, 225711.	1.3	10
46	Conductivity switching effect in Cd <sub>1-x</sub> Zn <sub>x</sub> Te films. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1197-1200.	0.8	9
47	Conductance spectra of (Nb, Pb, In)/NbP superconductor/Weyl semimetal junctions. Physical Review B, 2020, 101, .	1.1	9
48	ZnO - Wide Bandgap Semiconductor and Possibilities of Its Application in Optical Waveguide Structures. Metrology and Measurement Systems, 2014, 21, 401-412.	1.4	8
49	Exploiting nonlinear properties of pure and Sn-doped Bi <sub>2</sub> Te <sub>2</sub> Se for passive Q-switching of all-polarization maintaining ytterbium- and erbium-doped fiber lasers. Scientific Reports, 2017, 7, 7428.	1.6	8
50	Defect Structure of High-Temperature-Grown GaMnSb/GaSb. Acta Physica Polonica A, 2010, 117, 341-343.	0.2	8
51	Evidence for charging effects in CdTe/CdMgTe quantum point contacts. Physical Review B, 2012, 86, .	1.1	7
52	Signatures of dephasing by mirror-symmetry breaking in weak-antilocalization magnetoresistance across the topological transition in $Pb_{1-x}Sn_x$ . Physical Review B, 2021, 103, .	1.1	7
53	Structural and magnetic properties of GaSb:MnSb granular layers. Radiation Physics and Chemistry, 2011, 80, 1051-1057.	1.4	5
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	Controlling the nanoscale morphology and structure of the ZnO/MnO <sub>2</sub> system for efficient transparent supercapacitors. <i>MRS Communications</i> , 2017, 7, 173-178.	0.8	5
56	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
57	Synthesis and characterization of Gd <sub>2</sub> O <sub>3</sub> : Er <sup>3+</sup> , Yb <sup>3+</sup> doped with Mg <sup>2+</sup> , Li <sup>+</sup> ions effect on the photoluminescence and biological applications. <i>Nanotechnology</i> , 2021, 32, 245705.	1.3	5
58	Ferroelectric Field Effect Transistor Based on Modulation Doped CdTe/CdMgTe Quantum Wells. <i>Acta Physica Polonica A</i> , 2008, 114, 1173-1178.	0.2	5
59	Low Temperature Processing of Nanostructures Based on II-VI Semiconductors Quantum Wells. <i>Acta Physica Polonica A</i> , 2014, 126, 1174-1176.	0.2	4
60	Investigation of Porous Zn Growth Mechanism during Zn Reactive Sputter Deposition. <i>Acta Physica Polonica A</i> , 2014, 125, 1144-1148.	0.2	4
61	Terahertz magneto-spectroscopy of a point contact based on CdTe/CdMgTe quantum well. <i>Journal of Nanophotonics</i> , 2015, 9, 093082.	0.4	4
62	Application of a linear electrodynamic quadrupole trap for production of nanoparticle aggregates from drying microdroplets of colloidal suspension. <i>Journal of Instrumentation</i> , 2019, 14, P12007-P12007.	0.5	4
63	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
64	Time-resolved optical absorption in YAlO <sub>3</sub> crystals. <i>Radiation Measurements</i> , 2004, 38, 371-374.	0.7	3
65	Sodium dodecyl sulfate microaggregates with diversely developed surfaces: Formation from free microdroplets of colloidal suspension. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	3
66	Enhancement of mechanical properties of vertically aligned carbon nanotube arrays due to N <sup>+</sup> ion irradiation. <i>Nanotechnology</i> , 2020, 31, 285703.	1.3	3
67	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
68	Ferroelectricity in Ternary (CdZn)AVI Crystals. <i>Journal of the Korean Physical Society</i> , 2008, 53, 23-27.	0.3	3
69	Terahertz magnetospectroscopy of a point contact based on CdTe/CdMgTe quantum well. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
70	Rietveld refinement of the structure of copper indium diselenide. <i>X-Ray Spectrometry</i> , 2015, 44, 379-381.	0.9	2
71	Structural and magnetic properties of hybrid ferromagnetic metal/semiconductor (ZnTe)/Co core-shell nanowires. <i>Journal of Crystal Growth</i> , 2015, 412, 80-86.	0.7	2
72	Fluorescence resonance energy transfer between ZnO/MgO/carboxymethyl- $\beta$ -cyclodextrin and Nile Red in HeLa cells – biosensing applications. <i>RSC Advances</i> , 2015, 5, 1323-1330.	1.7	2

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73	Communicationâ€”Continuous Monitoring of Activity of Plasmonic Gold Nanoparticles over Photooxidation Reactions Carried-Out on Au/TiO <sub>2</sub> Photocatalysts. Journal of the Electrochemical Society, 2017, 164, H667-H669.	1.3	2
74	Application of dynamic light scattering for studying the evolution of micro- and nano-droplets. , 2018, , .		2
75	Physical Properties of ZnCoO Tetrapods and Nanofibers. Acta Physica Polonica A, 2009, 116, 868-870.	0.2	2
76	Spectroscopy of Indirect Excitons in Vertically Stacked CdTe Quantum Dot Structures. Acta Physica Polonica A, 2011, 120, 856-858.	0.2	2
77	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
78	Quantum Well ZnCdTe/CdTe Structures with Integrated Ferroelectric Gates. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	1
79	Fabrication, Processing and Characterization of Thin Film ZnO for Integrated Optical Gas Sensors. Materials Research Society Symposia Proceedings, 2009, 1201, 108.	0.1	1
80	Strong sp <sup>d</sup> 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
81	Influence of silver thickness on optical properties of metal island films fabricated by physical vapour deposition. , 2014, , .		1
82	Nanocoral ZnO films fabricated on flexible poly(vinyl chloride) using a carrier substrate. Thin Solid Films, 2014, 550, 145-148.	0.8	1
83	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
84	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
85	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
86	Bi incorporation and segregation in the MBE-grown GaAs-(Ga,Al)As-Ga(As,Bi) coreâ€”shell nanowires. Scientific Reports, 2022, 12, 6007.	1.6	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	Ferroelectric gate effect in modulation doped CdTe/CdMgTe quantum wells. , 2010, , .		0
89	Influence of the electrical conductivity on magnetic properties of CdZnMnTe epitaxial layers. , 2010, , .		0
90	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

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91	Synthesis and properties of nanocoral ZnO structures. Materials Research Society Symposia Proceedings, 2013, 1552, 113-118.	0.1	0
92	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
93	Characterization of non-vertically aligned semiconductor nanowires by THz emission measurements. , 2016, , .		0
94	Efficiency Improvement in Co-sensitized DSSCs Through a Cascade Band Alignment of N-719 and Rose Bengal Dyes on Nanostructured ZnO Photoanodes. MRS Advances, 2017, 2, 767-775.	0.5	0
95	Atomic Force Microscopy Study of a Voltage Effect on CdZnTe Crystal Dimensions. Acta Physica Polonica A, 2008, 114, 1041-1047.	0.2	0
96	Magnetic Force Microscopy Study of Zn <sub>1-x</sub> CoxO Nanowires Grown by Rapid Thermal Evaporation. Acta Physica Polonica A, 2009, 116, 865-867.	0.2	0
97	Evaporation-Driven Aggregation of Nanoparticles in a Free Droplet: Spherical Symmetry in Nanostructured Material. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 477-479.	0.2	0