

Alexandr Dejneka

List of Publications by Year in descending order

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256
papers

3,538
citations

147726

31
h-index

223716

46
g-index

261
all docs

261
docs citations

261
times ranked

4487
citing authors

#	ARTICLE	IF	CITATIONS
1	How a High-Gradient Magnetic Field Could Affect Cell Life. Scientific Reports, 2016, 6, 37407.	1.6	140
2	The interplay between biological and physical scenarios of bacterial death induced by non-thermal plasma. Biomaterials, 2016, 82, 71-83.	5.7	124
3	Non-thermal air plasma promotes the healing of acute skin wounds in rats. Scientific Reports, 2017, 7, 45183.	1.6	90
4	An effective strategy of magnetic stem cell delivery for spinal cord injury therapy. Nanoscale, 2015, 7, 3954-3958.	2.8	89
5	Ultrafast carrier dynamics in microcrystalline silicon probed by time-resolved terahertz spectroscopy. Physical Review B, 2009, 79, .	1.1	77
6	Highly efficient magnetic targeting of mesenchymal stem cells in spinal cord injury. International Journal of Nanomedicine, 2012, 7, 3719.	3.3	73
7	Evidence for Strain-Induced Ferroelectric Order in Epitaxial Thin-Film KTaO_3 . Physical Review Letters, 2010, 104, 227601.	2.9	72
8	Analyzing the mechanisms of iron oxide nanoparticles interactions with cells: A road from failure to success in clinical applications. Journal of Controlled Release, 2020, 328, 59-77.	4.8	72
9	Fluorescence Lifetime Correlation Spectroscopy Combined with Lifetime Tuning: A New Perspectives in Supported Phospholipid Bilayer Research. Langmuir, 2006, 22, 9580-9585.	1.6	67
10	Advanced preclinical models for evaluation of drug-induced liver injury – consensus statement by the European Drug-Induced Liver Injury Network [PRO-EURO-DILI-NET]. Journal of Hepatology, 2021, 75, 935-959.	1.8	66
11	Cell death induced by ozone and various non-thermal plasmas: therapeutic perspectives and limitations. Scientific Reports, 2014, 4, 7129.	1.6	62
12	Hardness, intrinsic stress, and structure of the a-C and a-C:H films prepared by magnetron sputtering. Diamond and Related Materials, 2001, 10, 1076-1081.	1.8	60
13	Ion-beam induced chemical and structural modification in polymers. Surface and Coatings Technology, 2002, 158-159, 108-113.	2.2	54
14	Liver Organoids: Recent Developments, Limitations and Potential. Frontiers in Medicine, 2021, 8, 574047.	1.2	50
15	Effects of high-gradient magnetic fields on living cell machinery. Journal Physics D: Applied Physics, 2016, 49, 493003.	1.3	49
16	Life on Magnets: Stem Cell Networking on Micro-Magnet Arrays. PLoS ONE, 2013, 8, e70416.	1.1	46
17	d0Ferromagnetic Interface between Nonmagnetic Perovskites. Physical Review Letters, 2012, 109, 127207.	2.9	45
18	Dielectric properties of Mn doped SrTiO_3 . Journal of Physics Condensed Matter, 2008, 20, 095221.	0.7	41

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19	Nanomechanics of magnetically driven cellular endocytosis. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	41
20	Modulation of monocytic leukemia cell function and survival by high gradient magnetic fields and mathematical modeling studies. <i>Biomaterials</i> , 2014, 35, 3164-3171.	5.7	41
21	Remote Actuation of Apoptosis in Liver Cancer Cells via Magneto-Mechanical Modulation of Iron Oxide Nanoparticles. <i>Cancers</i> , 2019, 11, 1873.	1.7	40
22	Mechanical properties and structure of amorphous and crystalline B4C films. <i>Diamond and Related Materials</i> , 2009, 18, 27-33.	1.8	38
23	Nanoparticle core stability and surface functionalization drive the mTOR signaling pathway in hepatocellular cell lines. <i>Scientific Reports</i> , 2017, 7, 16049.	1.6	38
24	Cells in the Non-Uniform Magnetic World: How Cells Respond to High-Gradient Magnetic Fields. <i>BioEssays</i> , 2018, 40, e1800017.	1.2	37
25	Non-thermal plasma mills bacteria: Scanning electron microscopy observations. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	36
26	Chemically different non-thermal plasmas target distinct cell death pathways. <i>Scientific Reports</i> , 2017, 7, 600.	1.6	36
27	High rate deposition of highly stable a-Si:H films using multi-hollow discharges for thin films solar cells. <i>Surface and Coatings Technology</i> , 2010, 205, S241-S245.	2.2	35
28	Low-temperature enhancement of plasmonic performance in silver films. <i>Optical Materials Express</i> , 2015, 5, 1147.	1.6	35
29	Electron paramagnetic resonance studies of manganese centers in SrTiO ₃ : Non-Kramers Mn ³⁺ ions and spin-spin coupled Mn ⁴⁺ dimers. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	34
30	Targeting the mTOR Signaling Pathway Utilizing Nanoparticles: A Critical Overview. <i>Cancers</i> , 2019, 11, 82.	1.7	34
31	Non-Thermal Plasma, as a New Physicochemical Source, to Induce Redox Imbalance and Subsequent Cell Death in Liver Cancer Cell Lines. <i>Cellular Physiology and Biochemistry</i> , 2019, 52, 119-140.	1.1	33
32	Down-regulation of adipogenesis of mesenchymal stem cells by oscillating high-gradient magnetic fields and mechanical vibration. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	31
33	Light-induced modulation of the mitochondrial respiratory chain activity: possibilities and limitations. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 2815-2838.	2.4	29
34	Strain-controlled optical absorption in epitaxial ferroelectric BaTiO ₃ films. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	28
35	Spectroscopic ellipsometry applied to phase transitions in solids: possibilities and limitations. <i>Optics Express</i> , 2009, 17, 14322.	1.7	27
36	Tensile strain induced changes in the optical spectra of SrTiO ₃ epitaxial thin films. <i>Physics of the Solid State</i> , 2010, 52, 2082-2089.	0.2	27

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37	Effect of static magnetic field on DNA synthesis: The interplay between DNA chirality and magnetic field leftâ€right asymmetry. <i>FASEB BioAdvances</i> , 2020, 2, 254-263.	1.3	27
38	Soft chemistry preparation methods and properties of strontium titanate nanoparticles. <i>Optical Materials</i> , 2010, 32, 803-806.	1.7	26
39	Double hollow cathode plasma jet-low temperature method for the TiO ₂ ~N photoresponding films. <i>Electrochimica Acta</i> , 2010, 55, 1548-1556.	2.6	26
40	Perovskite ferroelectric tuned by thermal strain. <i>Scientific Reports</i> , 2019, 9, 3677.	1.6	25
41	Iron Oxide Nanoparticle-Induced Autophagic Flux Is Regulated by Interplay between p53-mTOR Axis and Bcl-2 Signaling in Hepatic Cells. <i>Cells</i> , 2020, 9, 1015.	1.8	25
42	Thermal stability of microhardness and internal stress of hard a-C films with predominantly sp ² bonds. <i>Diamond and Related Materials</i> , 2003, 12, 1378-1384.	1.8	24
43	A â€soft electronic bandâ€™ and the negative thermooptic effect in strontium titanate. <i>New Journal of Physics</i> , 2009, 11, 083024.	1.2	23
44	Spatiotemporal magnetic fields enhance cytosolic Ca ²⁺ levels and induce actin polymerization via activation of voltage-gated sodium channels in skeletal muscle cells. <i>Biomaterials</i> , 2018, 163, 174-184.	5.7	23
45	Anisotropic chemical expansion due to oxygen vacancies in perovskite films. <i>Scientific Reports</i> , 2021, 11, 15247.	1.6	23
46	Investigation of the RF pulse modulated plasma jet system during the deposition of Pb(ZrxTi1~x)O ₃ thin films on polymer substrates. <i>Surface and Coatings Technology</i> , 2005, 200, 940-946.	2.2	22
47	Epitaxial growth of perovskite oxide films facilitated by oxygen vacancies. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1693-1700.	2.7	22
48	Oxygen vacancy dipoles in strained epitaxial BaTiO_3 films. <i>Physical Review Research</i> , 2020, 2, .	1.3	22
49	Ultrathin SrTiO ₃ films: epitaxy and optical properties. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 232203.	0.7	21
50	Ferroelectricity in antiferroelectric NaNbO ₃ crystal. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 125901.	0.7	21
51	Manipulating the mitochondria activity in human hepatic cell line Huh7 by low-power laser irradiation. <i>Biomedical Optics Express</i> , 2018, 9, 1283.	1.5	21
52	Characterization of RF-sputtered self-polarized PZT thin films for IR sensor arrays. <i>Vacuum</i> , 2002, 66, 473-478.	1.6	20
53	Surface Preconditioning Influences the Antifouling Capabilities of Zwitterionic and Nonionic Polymer Brushes. <i>Langmuir</i> , 2020, 36, 8485-8493.	1.6	20
54	Protein Corona Inhibits Endosomal Escape of Functionalized DNA Nanostructures in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46375-46390.	4.0	20

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55	Influence of Surface and Interface on PZT Film Optical Properties. <i>Physica Status Solidi A</i> , 1999, 175, 443-446.	1.7	19
56	Cell Membrane Pore Formation and Change in Ion Channel Activity in High-Gradient Magnetic Fields. <i>IEEE Magnetism Letters</i> , 2017, 8, 1-5.	0.6	19
57	The use of pulsed magnetic fields to increase the uptake of iron oxide nanoparticles by living cells. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	19
58	Progressive lysosomal membrane permeabilization induced by iron oxide nanoparticles drives hepatic cell autophagy and apoptosis. <i>Nano Convergence</i> , 2020, 7, 17.	6.3	19
59	Functionalized Terpolymer-Brush-Based Biointerface with Improved Antifouling Properties for Ultra-Sensitive Direct Detection of Virus in Crude Clinical Samples. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60612-60624.	4.0	19
60	Energy structure of KTaO_3 and $\text{KTaO}_3:\text{Li}$. <i>Physical Review B</i> , 2001, 64, .	1.1	17
61	Raman spectroscopy of dip-coated and spin-coated sol-gel TiO_2 thin films on different types of glass substrate. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 63, 294-306.	1.1	17
62	Solvothermal synthesis of nanocrystalline KTaO_3 : Effect of solvent dielectric constant. <i>Materials Research Bulletin</i> , 2012, 47, 1768-1773.	2.7	17
63	Comprehensive portrait of cholesterol containing oxidized membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1769-1776.	1.4	17
64	Synthesis, structure and properties of heavily Mn-doped perovskite-type SrTiO_3 nanoparticles. <i>Materials Chemistry and Physics</i> , 2014, 143, 570-577.	2.0	17
65	Modulation of collective cell behaviour by geometrical constraints. <i>Integrative Biology (United Kingdom)</i> 10.1093/ib/ibz017	0.6	17
66	Critical Analysis of Non-Thermal Plasma-Driven Modulation of Immune Cells from Clinical Perspective. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6226.	1.8	17
67	Phase transitions in ferroelectric $\text{Pb}(\text{Mn}_{1-x}\text{Ti}_x)\text{O}_3$ thin films. http://www.w3.org/1998/Math/MathML display="inline" $\text{Sr}_{0.5}\text{Ti}_{0.5}\text{O}_3$	1.1	16
68	Low-temperature relaxor state induced by epitaxial compressions in $\text{Pb}(\text{Sr}_{0.5}\text{Ti}_{0.5})_{1-x}\text{O}_3$ thin films. http://www.w3.org/1998/Math/MathML display="inline" $\text{Nb}_{0.5}\text{O}_{0.5}$	1.1	16
69	Anomalous multi-order Raman scattering in LaMnO_3 : a signature of quantum lattice effects in a Jahn-Teller crystal. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 155602.	0.7	16
70	A Critical Review on Selected External Physical Cues and Modulation of Cell Behavior: Magnetic Nanoparticles, Non-thermal Plasma and Lasers. <i>Journal of Functional Biomaterials</i> , 2019, 10, 2.	1.8	16
71	Self-Polarized PZT Thin Films: Deposition, Characterization and Application. <i>Ferroelectrics</i> , 2004, 298, 309-316.	0.3	15
72	High-frequency electron paramagnetic resonance investigation of Mn^{3+} centers in SrTiO_3 . <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 822-826.	1.9	15

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73	Optical effects induced by epitaxial tension in lead titanate. Applied Physics Letters, 2018, 112, 031111.	1.5	15
74	EPR spectroscopy of weak exchange interactions between Co^{2+} ions in ZnO. Physica Status Solidi - Rapid Research Letters, 2011, 5, 138-140.	1.2	14
75	Pulse-electron paramagnetic resonance of Cr^{3+} centers in SrTiO_3 . Journal of Applied Physics, 2013, 113, .	1.1	14
76	Circular domains nucleation in magnetic microwires. Applied Physics Letters, 2013, 102, .	1.5	14
77	Negative magnetoresistance in epitaxial films of neodymium nickelate. Physical Review B, 2019, 99, .	1.1	14
78	The electronic properties of $\text{SrTiO}_3\text{-}\hat{\Gamma}$ with oxygen vacancies or substitutions. Scientific Reports, 2021, 11, 23341.	1.6	14
79	Ellipsometric Investigations of the Refractive Index Depth Profile in PZT Thin Films. Physica Status Solidi A, 2001, 188, 1549-1552.	1.7	13
80	Lead Excess in $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ Thin Films Deposited by Reactive Sputtering at Low Temperatures. Ferroelectrics, 2005, 318, 3-10.	0.3	13
81	Optical evidence of strong coupling between valence band holes and d^0 localized spins in ZnO . Physical Review B, 2010, 81, .	1.1	13
82	Optical properties of laser-prepared Er- and Er,Yb-doped LiNbO_3 waveguiding layers. Laser Physics, 2013, 23, 105819.	0.6	13
83	Interband transitions in epitaxial ferroelectric films of NaNbO_3 . Physical Review B, 2015, 92, .	1.1	13
84	Towards the understanding of non-thermal air plasma action: effects on bacteria and fibroblasts. RSC Advances, 2016, 6, 25286-25292.	1.7	13
85	Modulation of Living Cell Behavior with Ultra-Low Fouling Polymer Brush Interfaces. Macromolecular Bioscience, 2020, 20, e1900351.	2.1	13
86	Optical refraction index and polarization profile of ferroelectric thin films. Integrated Ferroelectrics, 2001, 38, 101-110.	0.3	12
87	Out-of-Plane and In-Plane Magnetization Behavior of Dipolar Interacting FeNi Nanoislands around the Percolation Threshold. Journal of Nanomaterials, 2016, 2016, 1-9.	1.5	12
88	Modulation of the Cell Membrane Potential and Intracellular Protein Transport by High Magnetic Fields. Bioelectromagnetics, 2021, 42, 27-36.	0.9	12
89	$\text{SrTiO}_3\text{:Cr}$ nanocrystalline powders: size effects and optical properties. Journal of Physics Condensed Matter, 2009, 21, 375303.	0.7	11
90	An optical and dielectric spectroscopy study of Er^{3+} -doped KTaO_3 . Physica Status Solidi (B): Basic Research, 2011, 248, 2908-2915.	0.7	11

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91	Intrinsic and impurity defects in chromium-doped SrTiO ₃ nanopowders: EPR and NMR study. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 821-824.	0.7	11
92	Deficiency of Standard Effective-Medium Approximation for Ellipsometry of Layers of Nanoparticles. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8.	1.5	11
93	Effect of epitaxy on interband transitions in ferroelectric KNbO ₃ . <i>New Journal of Physics</i> , 2015, 17, 043048.	1.2	11
94	BaxSr1-xTiO ₃ Thin Films Deposited by RF Hollow Cathode Plasma Jet Technique. <i>Ferroelectrics</i> , 2005, 317, 1-6.	0.3	10
95	Optical Gradient of the Trapezium-Shaped NaNbO ₃ Thin Films Studied by Spectroscopic Ellipsometry. <i>Journal of the Electrochemical Society</i> , 2008, 155, G209.	1.3	10
96	Formation of Optical Gradient in Chemical Solution-Derived PbZr _{0.52} Ti _{0.48} O ₃ Thin Films: Spectroscopic Ellipsometry Investigation. <i>Journal of the Electrochemical Society</i> , 2009, 156, G217.	1.3	10
97	EPR study of the ground state of Mn ²⁺ impurity ions in aluminoborates MAl ₃ (BO ₃) ₄ (M = Y, Eu, Tm). <i>Physica Scripta</i> , 2015, 90, 065804.	1.2	10
98	Concurrent bandgap narrowing and polarization enhancement in epitaxial ferroelectric nanofilms. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 026002.	2.8	10
99	Interplay of electron correlations and localization in disordered d ² -tantalum films: Evidence from dc transport and spectroscopic ellipsometry study. <i>Applied Physics Letters</i> , 2015, 106, 051907.	1.5	10
100	The interactions between DNA nanostructures and cells: A critical overview from a cell biology perspective. <i>Acta Biomaterialia</i> , 2022, 146, 10-22.	4.1	10
101	An ellipsometric study of W thin films deposited on Si. <i>Thin Solid Films</i> , 1999, 339, 216-219.	0.8	9
102	Phase Transitions in PbZr _{1-x} Ti _x O ₃ Ceramics Prepared by Different Techniques. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 6966-6968.	0.8	9
103	Optical Spectra and Direct Optical Transitions in Amorphous and Crystalline ZnO Thin Films and Powders. <i>Journal of the Electrochemical Society</i> , 2010, 157, G67.	1.3	9
104	Optical properties of epitaxial relaxor ferroelectric PbSc _{0.5} Nb _{0.5} O ₃ films. <i>Applied Physics Letters</i> , 2013, 103, 132901.	1.5	9
105	Ambience-sensitive optical refraction in ferroelectric nanofilms of NaNbO ₃ . <i>Science and Technology of Advanced Materials</i> , 2014, 15, 045001.	2.8	9
106	Contrasting magnetism in dilute and supersaturated cobalt-fullerene mixture films. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 335002.	1.3	9
107	Mapping magnetization states in ultrathin films with Dzyaloshinskii-Moriya interaction. <i>New Journal of Physics</i> , 2019, 21, 093022.	1.2	9
108	Flexoelectric polarization induced by inhomogeneous heating and implications for energy harvesting. <i>International Journal of Solids and Structures</i> , 2019, 162, 96-104.	1.3	9

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109	Dielectric permittivity in weakly concentrated SrTiO ₃ :Mn crystals and ceramics. Journal of Physics: Conference Series, 2007, 93, 012017.	0.3	8
110	Thermo-optical studies of NaNbO ₃ thin films. Journal of Physics: Conference Series, 2007, 93, 012016.	0.3	8
111	Deposition of PZT Thin Films on Copper-Coated Polymer Foils – Challenges and Perspectives. Ferroelectrics, 2009, 379, 107-112.	0.3	8
112	Spectroscopic ellipsometry of SrTiO ₃ crystals applied to antiferrodistortive surface phase transition. Physica Status Solidi (B): Basic Research, 2010, 247, 1951-1955.	0.7	8
113	Deposition of PZT thin film onto copper-coated polymer films by mean of pulsed-DC and RF-reactive sputtering. Surface and Coatings Technology, 2011, 205, S241-S244.	2.2	8
114	Vacuum-ultraviolet ellipsometry spectra and structural properties of Pb(Zr,Ti)O ₃ films. Thin Solid Films, 2011, 519, 2885-2888.	0.8	8
115	Optical evidence of quantum rotor orbital excitations in orthorhombic manganites. Journal of Experimental and Theoretical Physics, 2016, 122, 890-901.	0.2	8
116	Modeling the Motion of Ferroelectric Domain Walls with the Classical Stefan Problem. Physical Review Applied, 2020, 13, .	1.5	8
117	Effects of High Magnetic Fields on the Diffusion of Biologically Active Molecules. Cells, 2022, 11, 81.	1.8	8
118	Optical Properties of Self-Polarized PZT Ferroelectric Films. Ferroelectrics, 2002, 273, 155-160.	0.3	7
119	Oxidation of graphite-like carbon films with different microhardness and density. Surface and Coatings Technology, 2003, 174-175, 290-295.	2.2	7
120	DEPOSITION OF NANOCRYSTALLINE AND MICROCRYSTALLINE Ba _x Sr _{1-x} TiO ₃ BY MEANS OF PULSE MODULATED LOW PRESSURE PLASMA JET SYSTEM. Integrated Ferroelectrics, 2006, 81, 227-237.	0.3	7
121	Multijet atmospheric plasma device for biomedical applications. Plasma Medicine, 2011, 1, 135-141.	0.2	7
122	Optical spectroscopy of erbium-doped SrTiO ₃ crystals. Journal of Luminescence, 2014, 154, 437-444.	1.5	7
123	Phase evolution in mixture of cobalt and fullerene deposited from vapor. Carbon, 2016, 103, 425-435.	5.4	7
124	Vacuum-ultraviolet ellipsometry spectra and optical properties of Ba(Zr,Ti)O ₃ films. Thin Solid Films, 2017, 621, 58-62.	0.8	7
125	Optical NIR-VIS-VUV constants of advanced substrates for thin-film devices. Optical Materials Express, 2017, 7, 3844.	1.6	7
126	Elasto-optic behaviour in epitaxial films of perovskite oxide ferroelectrics. Advances in Applied Ceramics, 2018, 117, 62-65.	0.6	7

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127	Ferroelectric phase transitions induced by a strain gradient. <i>Physical Review Research</i> , 2021, 3, .	1.3	7
128	Optical Properties of Ferroelectric Epitaxial $K_{0.5}Na_{0.5}NbO_3$ Films in Visible to Ultraviolet Range. <i>PLoS ONE</i> , 2016, 11, e0153261.	1.1	7
129	Nondestructive investigations of the depth profile of PZT ferroelectric films. <i>Ferroelectrics</i> , 2001, 264, 151-156.	0.3	6
130	Ellipsometry investigation of perovskite/pyrochlore PZT thin film stacks. <i>Ferroelectrics</i> , 2001, 258, 271-276.	0.3	6
131	High Temperature Effects in Li-Doped ZnO Thin Films. <i>Integrated Ferroelectrics</i> , 2004, 63, 209-213.	0.3	6
132	MULTI-TARGET REACTIVE SPUTTER DEPOSITION OF LEAD-ENRICHED $Pb(Zr,Ti)O_3$ THIN FILMS. <i>Integrated Ferroelectrics</i> , 2006, 80, 189-195.	0.3	6
133	Impurity centers and host microstructure in weakly doped $SrTiO_3:Mn$ crystals: new findings. <i>Journal of Physics: Conference Series</i> , 2007, 93, 012012.	0.3	6
134	Li doping effect on properties and phase transformations of $KNbO_3$. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4071-4073.	2.8	6
135	Synthesis and optical properties of Mn doped ZnO thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2140-2143.	0.8	6
136	Using the methods of radiospectroscopy (EPR, NMR) to study the nature of the defect structure of solid solutions based on lead zirconate titanate (PZT). <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1379-1385.	1.7	6
137	Electron spin dynamics of Ce^{3+} ions in YAG crystals studied by pulse-EPR and pump-probe Faraday rotation. <i>Physical Review B</i> , 2017, 96, .	1.1	6
138	Localization effects in the disordered Ta interlayer of multilayer $Ta\delta FeNi$ films: Evidence from dc transport and spectroscopic ellipsometry study. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	6
139	Collective magnetic response of inhomogeneous nanoisland $FeNi$ films around the percolation transition. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	6
140	Efficient green emission from edge states in graphene perforated by nitrogen plasma treatment. <i>2D Materials</i> , 2019, 6, 045021.	2.0	6
141	Optical revelation of defects in epitaxial barium titanate films. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7874-7878.	1.3	6
142	Multiple optical impacts of anion doping in epitaxial barium titanate films. <i>APL Materials</i> , 2020, 8, .	2.2	6
143	Optics of epitaxial strained strontium titanate films. <i>Applied Physics Letters</i> , 2020, 117, 082901.	1.5	6
144	Functionalizable Antifouling Coatings as Tunable Platforms for the Stress-Driven Manipulation of Living Cell Machinery. <i>Biomolecules</i> , 2020, 10, 1146.	1.8	6

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145	Influence of Humidity on Local Polarization Reversal in a Rb:KTP Single Crystal. ACS Applied Electronic Materials, 2021, 3, 260-266.	2.0	6
146	Degradation and stress evolution in a-C, a-C:H and Ti-C:H films. Surface and Coatings Technology, 2001, 142-144, 702-706.	2.2	5
147	Ellipsometry and LMM investigations of the interaction between PZT thin films and platinum electrodes and air. Ferroelectrics, 2001, 254, 205-211.	0.3	5
148	Size Effect on the Structure and Optical Properties in Nanocrystalline SrTiO ₃ . E-Journal of Surface Science and Nanotechnology, 2012, 10, 406-410.	0.1	5
149	Observation of Nano Sized Effect on EPR of Mn ⁴⁺ and Cr ³⁺ in SrTiO ₃ Powders. Ferroelectrics, 2015, 485, 63-67.	0.3	5
150	Contribution of spontaneous polarization and its fluctuations to refraction of light in ferroelectrics. Physics of the Solid State, 2016, 58, 134-139.	0.2	5
151	Optical transitions and electronic interactions in self-assembled cobalt-fullerene mixture films. Journal Physics D: Applied Physics, 2017, 50, 485305.	1.3	5
152	Localization Phenomena in Disordered Tantalum Films. Metals, 2017, 7, 257.	1.0	5
153	Thermo-optical evidence of carrier-stabilized ferroelectricity in ultrathin electrodeless films. Scientific Reports, 2018, 8, 8497.	1.6	5
154	Hepatic Tumor Cell Morphology Plasticity under Physical Constraints in 3D Cultures Driven by YAP/mTOR Axis. Pharmaceuticals, 2020, 13, 430.	1.7	5
155	Control of Moiré correlations at the nanoscale in the disordered metallic Ta nanoisland FeNi multilayers. Scientific Reports, 2020, 10, 21172.	1.6	5
156	In situ anion-doped epitaxial strontium titanate films. Physical Chemistry Chemical Physics, 2020, 22, 24796-24800.	1.3	5
157	Expression of Interferons Lambda 3 and 4 Induces Identical Response in Human Liver Cell Lines Depending Exclusively on Canonical Signaling. International Journal of Molecular Sciences, 2021, 22, 2560.	1.8	5
158	Strain enhancement due to oxygen vacancies in perovskite oxide films. Journal of Materials Chemistry C, 2022, 10, 6770-6777.	2.7	5
159	Large area deposition of Pb(Zr,Ti)O ₃ thin films for piezoelectric MEMS devices. Journal of Electroceramics, 2008, 20, 17-20.	0.8	4
160	Thermo-optical investigations of NaNbO ₃ thin films by spectral ellipsometry. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2765-2768.	0.8	4
161	Optical absorption spectra and energy levels of Er ³⁺ ions in KTaO ₃ crystals. Technical Physics Letters, 2009, 35, 566-568.	0.2	4
162	Study of absorption spectra of Er ³⁺ in KTaO ₃ crystals. Physics of the Solid State, 2009, 51, 1470-1472.	0.2	4

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163	Atmospheric Barrierâ€”Torch Discharge Deposited ZnO Films: Optical Properties, Doping and Grain Size Effects. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4094-4097.	0.9	4
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