

Maxim V Zdorovets

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papers

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333
ext. papers

5,189
ext. citations

2.6
avg, IF

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L-index

#	Paper	IF	Citations
3 ¹³	FeCo _{1-x} Fe _{2x} CoO ₄ /Co ₃ O ₄ nanocomposites: Phase transformations as a result of thermal annealing and practical application in catalysis. <i>Ceramics International</i> , 2020 , 46, 10262-10269	5.1	152
3 ¹²	Correlation Between Composition and Electrodynamics Properties in Nanocomposites Based on Hard/Soft Ferrimagnetics with Strong Exchange Coupling. <i>Nanomaterials</i> , 2019 , 9,	5.4	105
3 ¹¹	Study of phase transformations in Co/CoCo ₂ O ₄ nanowires. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152450	5.7	96
3 ¹⁰	The effect of lithium doping on the ferroelectric properties of LST ceramics. <i>Ceramics International</i> , 2020 , 46, 14548-14557	5.1	94
3 ⁰⁹	The study of the structural characteristics and catalytic activity of Co/CoCo ₂ O ₄ nanowires. <i>Composites Part B: Engineering</i> , 2020 , 191, 107968	10	93
3 ⁰⁸	Fe ₃ O ₄ Nanoparticles for Complex Targeted Delivery and Boron Neutron Capture Therapy. <i>Nanomaterials</i> , 2019 , 9,	5.4	82
3 ⁰⁷	Immobilization of boron-rich compound on Fe ₃ O ₄ nanoparticles: Stability and cytotoxicity. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 573-581	5.7	81
3 ⁰⁶	Features of crystal and magnetic structure of the BaFe _{12-x} GaxO ₁₉ (x ∈ ℤ) in the wide temperature range. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 522-529	5.7	80
3 ⁰⁵	Influence of the charge ordering and quantum effects in heterovalent substituted hexaferrites on their microwave characteristics. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 1193-1202	5.7	76
3 ⁰⁴	Control of Growth Mechanism of Electrodeposited Nanocrystalline NiFe Films. <i>Journal of the Electrochemical Society</i> , 2019 , 166, D173-D180	3.9	74
3 ⁰³	Synthesis, phase composition and magnetic properties of double perovskites of A(FeM)O _{4-x} type (A=Ce; M=Ti). <i>Ceramics International</i> , 2019 , 45, 8669-8676	5.1	73
3 ⁰²	Peculiarities of the magnetic structure and microwave properties in Ba(Fe _{1-x} Sc _x) ₁₂ O ₁₉ (x. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153575	5.7	69
3 ⁰¹	Evaluation of the Efficiency of Detection and Capture of Manganese in Aqueous Solutions of FeCeO Nanocomposites Doped with NbO. <i>Sensors</i> , 2020 , 20,	3.8	69
3 ⁰⁰	Phase transformations in FeCo _{1-x} Fe _{2x} CoO ₄ /Co ₃ O ₄ -spinel nanostructures as a result of thermal annealing and their practical application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 16694-16705	2.1	69
299	Effect of treatment conditions on structure and magnetodielectric properties of barium hexaferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166190	2.8	66
298	Helium swelling in WO ₃ microcomposites. <i>Ceramics International</i> , 2020 , 46, 10521-10529	5.1	57
297	Study of the stability of the structural properties of CeO ₂ microparticles to helium irradiation. <i>Surface and Coatings Technology</i> , 2020 , 383, 125286	4.4	54

296	Study of the effect of La ³⁺ doping on the properties of ceramics based on BaTiO _x . <i>Vacuum</i> , 2019 , 168, 108838	3.7	51
295	Effect of doping of Ce ^{4+/3+} on optical, strength and shielding properties of (0.5-x)TeO ₂ -0.25MoO ₃ -0.25Bi ₂ O ₃ -xCeO ₂ glasses. <i>Materials Chemistry and Physics</i> , 2021 , 263, 124444	4.4	51
294	Synthesis of LiBaZrO _x ceramics with a core-shell structure. <i>Ceramics International</i> , 2020 , 46, 6217-6221	5.1	49
293	Electrochemical Behaviour of Ti/AlO/Ni Nanocomposite Material in Artificial Physiological Solution: Prospects for Biomedical Application. <i>Nanomaterials</i> , 2020 , 10,	5.4	45
292	Evolution of the polyethylene terephthalate track membranes parameters at the etching process. <i>Journal of Contemporary Physics</i> , 2017 , 52, 155-160	0.5	44
291	Preparation of PET track-etched membranes for membrane distillation by photo-induced graft polymerization. <i>Materials Chemistry and Physics</i> , 2018 , 205, 55-63	4.4	44
290	The Effect of Heat Treatment on the Microstructure and Mechanical Properties of 2D Nanostructured Au/NiFe System. <i>Nanomaterials</i> , 2020 , 10,	5.4	43
289	Function composites materials for shielding applications: Correlation between phase separation and attenuation properties. <i>Journal of Alloys and Compounds</i> , 2019 , 771, 238-245	5.7	42
288	Investigation of phase transformations and corrosion resistance in Co/CoCoO nanowires and their potential use as a basis for lithium-ion batteries. <i>Scientific Reports</i> , 2019 , 9, 16646	4.9	39
287	Comprehensive Study of Ni Nanotubes for Bioapplications: From Synthesis to Payloads Attaching. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-9	3.2	39
286	Dynamics of changes in structural properties of AlN ceramics after Xe ⁺²² ion irradiation. <i>Vacuum</i> , 2018 , 155, 412-422	3.7	38
285	Early-Stage Growth Mechanism and Synthesis Conditions-Dependent Morphology of Nanocrystalline Bi Films Electrodeposited from Perchlorate Electrolyte. <i>Nanomaterials</i> , 2020 , 10,	5.4	37
284	Formation and corrosion properties of Ni-based composite material in the anodic alumina porous matrix. <i>Journal of Alloys and Compounds</i> , 2019 , 804, 139-146	5.7	35
283	Influence of titanium substitution on structure, magnetic and electric properties of barium hexaferrites BaFe _{12-x} Ti _x O ₁₉ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166117	2.8	35
282	Preparation and morphology-dependent wettability of porous alumina membranes. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1423-1436	3	34
281	The effect of oxidation pretreatment of polymer template on the formation and catalytic activity of Au/PET membrane composites. <i>Chemical Papers</i> , 2017 , 71, 2353-2358	1.9	34
280	Influence of electrodeposition parameters on structural and morphological features of Ni nanotubes. <i>Physics of Metals and Metallography</i> , 2017 , 118, 164-169	1.2	33
279	Structure and corrosion properties of thin TiO ₂ films obtained by magnetron sputtering. <i>Vacuum</i> , 2019 , 164, 224-232	3.7	32

278	Thermal annealing of unetched fission tracks in apatite. <i>Earth and Planetary Science Letters</i> , 2012 , 321-322, 121-127	5.3	31
277	Growth mechanisms of spatially separated copper dendrites in pores of a SiO ₂ template. <i>Philosophical Magazine</i> , 2017 , 97, 2268-2283	1.6	30
276	Study of the formation effect of the cubic phase of LiTiO ₂ on the structural, optical, and mechanical properties of Li ₂ xTi _{1-x} O ₃ ceramics with different contents of the X component. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 7410-7422	2.1	29
275	Changes in optical and structural properties of AlN after irradiation with C ²⁺ ions of 40 keV. <i>Vacuum</i> , 2019 , 161, 103-110	3.7	28
274	Synthesis and resistance to helium swelling of Li ₂ TiO ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 12903-12912	2.1	27
273	Study of phase transformations, structural, corrosion properties and cytotoxicity of magnetite-based nanoparticles. <i>Vacuum</i> , 2019 , 163, 236-247	3.7	26
272	Study of Ni/Fe nanotube properties. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 663-667	1.6	25
271	The effect of oxidizing agents/systems on the properties of track-etched PET membranes. <i>Polymer Degradation and Stability</i> , 2014 , 107, 150-157	4.7	25
270	Radiation induced deposition of copper nanoparticles inside the nanochannels of poly(acrylic acid)-grafted poly(ethylene terephthalate) track-etched membranes. <i>Radiation Physics and Chemistry</i> , 2017 , 130, 480-487	2.5	25
269	Degradation mechanism and way of surface protection of nickel nanostructures. <i>Materials Chemistry and Physics</i> , 2019 , 223, 88-97	4.4	25
268	Investigation of the influence of irradiation with Fe ⁺⁷ ions on structural properties of AlN ceramics. <i>Materials Research Express</i> , 2018 , 5, 065502	1.7	25
267	The study of the prospects for the use of Li _{0.15} Sr _{0.85} TiO ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 6764-6772	2.1	24
266	Mossbauer research of Fe/Co nanotubes based on track membranes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 381, 103-109	1.2	24
265	Tunable synthesis of copper nanotubes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 110, 012013	0.4	24
264	Electrochemically deposited copper nanotubes. <i>Journal of Surface Investigation</i> , 2017 , 11, 270-275	0.5	23
263	Synthesis, phase composition and structural and conductive properties of ferroelectric microparticles based on ATiO _x (A = Ba, Ca, Sr). <i>Ceramics International</i> , 2019 , 45, 17236-17242	5.1	23
262	Modification of PET ion track membranes for membrane distillation of low-level liquid radioactive wastes and salt solutions. <i>Separation and Purification Technology</i> , 2019 , 227, 115694	8.3	23
261	Synthesis, structural properties and shielding efficiency of glasses based on TeO ₂ -(1-x)ZnO-xSm ₂ O ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 12111-12120	2.1	23

260	Structural features, magnetic and ferroelectric properties of SrFe _{10.8} In _{1.2} O ₁₉ compound. <i>Materials Research Bulletin</i> , 2021 , 138, 111236	5.1	23
259	Modification of Fe ₃ O ₄ nanoparticles with carboranes. <i>Materials Research Express</i> , 2018 , 5, 105011	1.7	21
258	Control of structural parameters and thermal conductivity of BeO ceramics using heavy ion irradiation and post-radiation annealing. <i>Ceramics International</i> , 2019 , 45, 15412-15416	5.1	19
257	Optical and structural properties of AlN ceramics irradiated with heavy ions. <i>Optical Materials</i> , 2019 , 91, 130-137	3.3	19
256	Comparative catalytic activity of PET track-etched membranes with embedded silver and gold nanotubes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 70-74	1.2	19
255	Effect of orientation on ion track formation in apatite and zircon. <i>American Mineralogist</i> , 2014 , 99, 1127-1132	1.32	19
254	Argon ion irradiation effect on Zn nanotubes. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 3621-3630	2.1	19
253	Structure and physical properties of iron nanotubes obtained by template synthesis. <i>Physics of the Solid State</i> , 2017 , 59, 784-790	0.8	17
252	Influence of He-ion irradiation of ceramic AlN. <i>Vacuum</i> , 2019 , 163, 45-51	3.7	17
251	Enhancing hydrophilicity and water permeability of PET track-etched membranes by advanced oxidation process. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 651-655	1.2	17
250	Magnetic and microwave properties of carbonyl iron in the high frequency range. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 490, 165493	2.8	17
249	Immobilization of carborane derivatives on Ni/Fe nanotubes for BNCT. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	17
248	Electron/gamma radiation-induced synthesis and catalytic activity of gold nanoparticles supported on track-etched poly(ethylene terephthalate) membranes. <i>Materials Chemistry and Physics</i> , 2018 , 217, 31-39	4.4	16
247	Copper nanotube composite membrane as a catalyst in Mannich reaction. <i>Chemical Papers</i> , 2018 , 72, 3189-3194	1.9	16
246	FeNi nanotubes: perspective tool for targeted delivery. <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 835-844	3.4	16
245	LiF crystals irradiated with 150 MeV Kr ions: Peculiarities of color center creation and thermal annealing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 295, 89-93	1.2	16
244	Defect formation in AlN after irradiation with He ²⁺ ions. <i>Ceramics International</i> , 2019 , 45, 8130-8137	5.1	16
243	Investigation of radiation resistance of AlN ceramics. <i>Vacuum</i> , 2019 , 159, 144-151	3.7	16

242	Influence of temperature and electrodeposition potential on structure and magnetic properties of nickel nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 489, 165436	2.8	15
241	Investigation of the effect of ionizing radiation on the structural and conductive characteristics of Ni nanostructures. <i>Vacuum</i> , 2019 , 163, 103-109	3.7	15
240	The study of the applicability of ionizing radiation to increase the photocatalytic activity of TiO ₂ thin films. <i>Journal of Nanostructure in Chemistry</i> , 2020 , 10, 331-346	7.6	15
239	Protein fouling of modified microporous PET track-etched membranes. <i>Radiation Physics and Chemistry</i> , 2018 , 151, 141-148	2.5	15
238	The behavior of Ni nanotubes under the influence of environments with different acidities. <i>CrystEngComm</i> , 2018 , 20, 3258-3266	3.3	14
237	Synthesis and Properties of Ferrite-Based Nanoparticles. <i>Nanomaterials</i> , 2019 , 9,	5.4	14
236	Correlation between structural and magnetic properties of FeNi nanotubes with different lengths. <i>Journal of Alloys and Compounds</i> , 2019 , 810, 151874	5.7	14
235	Evaluation of the catalytic activity of the composite track-etched membranes for p-nitrophenol reduction reaction. <i>Petroleum Chemistry</i> , 2015 , 55, 810-815	1.1	14
234	Stability and cytotoxicity study of NiFe ₂ O ₄ nanocomposites synthesized by co-precipitation and subsequent thermal annealing. <i>Ceramics International</i> , 2020 , 46, 16548-16555	5.1	14
233	Effect of ionizing radiation on structural and conductive properties of copper nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 175-179	2.3	14
232	Study of Magnetic Properties of FeNi Nanostructures Using the Mössbauer Spectroscopy Method. <i>Nanomaterials</i> , 2019 , 9,	5.4	13
231	Research of the shielding effect and radiation resistance of composite CuBi ₂ O ₄ films as well as their practical applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 11729-11740	2.1	13
230	The influence of thermal annealing on structural properties of Ni nanotubes. <i>Vacuum</i> , 2018 , 153, 254-263	3.7	13
229	Color center accumulation in LiF crystals under irradiation with MeV ions: Optical spectroscopy and modeling. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 313, 21-25	1.2	13
228	Evolution of morphology, structure, and magnetic parameters of Ni nanotubes with growth in pores of a PET template. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 497, 165913	2.8	13
227	Electron Beam Induced Enhancement of the Catalytic Properties of Ion-Track Membranes Supported Copper Nanotubes in the Reaction of the P-Nitrophenol Reduction. <i>Catalysts</i> , 2019 , 9, 737	4	12
226	Synthesis, structural, strength and corrosion properties of thin films of the type CuX (X = Bi, Mg, Ni). <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 11819-11832	2.1	12
225	Influence of deposition temperature on the structure and catalytic properties of the copper nanotubes composite membranes. <i>Materials Research Express</i> , 2018 , 5, 065041	1.7	12

224	Effects of irradiation temperature on the response of CeO ₂ , ThO ₂ , and UO ₂ to highly ionizing radiation. <i>Journal of Nuclear Materials</i> , 2019 , 525, 83-91	3-3	12
223	F center creation and aggregation in LiF crystals irradiated with ¹⁴ N, ⁴⁰ Ar, and ⁸⁴ Kr ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 326, 311-313	1.2	12
222	Synthesis, Structure, and Catalytic Activity of Au/Poly(ethylene terephthalate) Composites. <i>Acta Physica Polonica A</i> , 2014 , 125, 1263-1267	0.6	12
221	Color centers and nanodefects in LiF crystals irradiated with 150MeV Kr ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 286, 56-60	1.2	12
220	Thermal annealing of radiation damage produced by swift ¹³² Xe ions in MgO single crystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 462, 163-168	1.2	12
219	Multilayer spin-valve CoFeP/Cu nanowires with giant magnetoresistance. <i>Journal of Alloys and Compounds</i> , 2020 , 846, 156474	5-7	12
218	Study of the effect of irradiation with Fe ⁷⁺ ions on the structural properties of thin TiO ₂ foils. <i>Materials Research Express</i> , 2019 , 6, 046309	1.7	12
217	Liquid low-level radioactive wastes treatment by using hydrophobized track-etched membranes. <i>Progress in Nuclear Energy</i> , 2020 , 118, 103128	2.3	12
216	Radiation resistance of AlN ceramics as a result of irradiation with low-energy C ²⁺ ions. <i>Materials Characterization</i> , 2019 , 150, 88-97	3.9	11
215	Temperature Dependent Catalytic Activity of Ag/PET Ion-Track Membranes Composites. <i>Acta Physica Polonica A</i> , 2015 , 128, 871-875	0.6	11
214	Accumulation of radiation defects and modification of micromechanical properties under MgO crystal irradiation with swift ¹³² Xe ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 463, 50-54	1.2	11
213	FeCo nanotubes: possible tool for targeted delivery of drugs and proteins. <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 1091-1099	3-3	11
212	Study of the use of ionizing radiation to improve the efficiency of performance of nickel nanostructures as anodes of lithium-ion batteries. <i>Materials Research Express</i> , 2019 , 6, 055026	1.7	10
211	Study of hydrogenation processes in radiation-resistant nitride ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 11227-11237	2.1	10
210	Modification of structural and conductive properties of Zn nanotubes by irradiation with electrons with an energy of 5 MeV. <i>Materials Research Express</i> , 2017 , 4, 125023	1.7	10
209	Color center creation in LiF crystals irradiated with Xe, Kr and N ions: Dependence on fluence and beam current density. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 3005-3008	1.2	10
208	Functionalization of PET Track-Etched Membranes by UV-Induced Graft (co)Polymerization for Detection of Heavy Metal Ions in Water. <i>Polymers</i> , 2019 , 11,	4-5	10
207	The influence of stopping power and temperature on latent track formation in YAP and YAG. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 460, 67-73	1.2	10

206	The influence of the synthesis conditions on the magnetic behaviour of the densely packed arrays of Ni nanowires in porous anodic alumina membranes.. <i>RSC Advances</i> , 2021 , 11, 3952-3962	3.7	10
205	Luminescence of the tungsten-activated MgF2 ceramics synthesized under the electron beam. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018 , 435, 263-267	1.2	10
204	Optimization of PET Ion-Track Membranes Parameters. <i>Materials Today: Proceedings</i> , 2019 , 7, 866-871	1.4	9
203	Iron oxide @ gold nanoparticles: Synthesis, properties and potential use as anode materials for lithium-ion batteries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 603, 125178 ^{5.1}	5.1	9
202	Hydrophobization of PET track-etched membranes for direct contact membrane distillation. <i>Materials Research Express</i> , 2018 , 5, 065317	1.7	9
201	Analysis of the microstructural evolution of silicon nitride irradiated with swift Xe ions. <i>Ceramics International</i> , 2020 , 46, 7155-7160	5.1	9
200	Changes in structural and conducting characteristics of zinc nanotubes by bombardment with Xe+22 heavy ions. <i>High Energy Chemistry</i> , 2017 , 51, 11-16	0.9	8
199	The investigation of various type irradiation effects on aluminum nitride ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8777-8787	2.1	8
198	About complexity of the 2.16-eV absorption band in MgO crystals irradiated with swift Xe ions. <i>Radiation Measurements</i> , 2020 , 135, 106379	1.5	8
197	Induced Spirals in Polyethylene Terephthalate Films Irradiated with Ar Ions with an Energy of 70 MeV. <i>Crystals</i> , 2020 , 10, 427	2.3	8
196	Induced ordering in polyethylene terephthalate films irradiated with Ar ions with an energy of 70 MeV. <i>Surface and Coatings Technology</i> , 2020 , 386, 125490	4.4	8
195	Phase transformations and changes in the dielectric properties of nanostructured perovskite-like LBZ composites as a result of thermal annealing. <i>Ceramics International</i> , 2020 , 46, 14460-14468	5.1	8
194	Synthesis and properties of Cu/CuO nanostructures obtained by electrochemical deposition. <i>Materials Research Express</i> , 2018 , 5, 035052	1.7	8
193	K-, L- and M-shell X-ray productions induced by argon ions in the 0.8-1.6 MeV/amu range. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 372, 1-6	1.2	8
192	Cu/CuO Composite Track-Etched Membranes for Catalytic Decomposition of Nitrophenols and Removal of As(III). <i>Nanomaterials</i> , 2020 , 10,	5.4	8
191	Study of the effect of ion irradiation on increasing the photocatalytic activity of WO3 microparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 3863-3877	2.1	8
190	Effect of electronic modification on nanostructures stability to degradation. <i>Materials Research Express</i> , 2018 , 5, 075010	1.7	8
189	Evolution of the absorption edge of PET films irradiated with Kr ions after thermal annealing and ageing. <i>Optical Materials</i> , 2021 , 119, 111348	3.3	8

188	Synthesis of Ni@Au core-shell magnetic nanotubes for bioapplication and SERS detection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 626, 127077	5.1	8
187	Peculiarities of latent track etching in SiO ₂ /Si structures irradiated with Ar, Kr and Xe ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 374, 121-124	1.2	7
186	Photocatalytically active filtration systems based on modified with titanium dioxide PET-membranes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 460, 212-215	1.2	7
185	Study of Helium Swelling in Nitride Ceramics at Different Irradiation Temperatures. <i>Materials</i> , 2019 , 12,	3.5	7
184	Microstructural Effects of Al Doping on Si ₃ N ₄ Irradiated with Swift Heavy Ions. <i>Acta Physica Polonica A</i> , 2019 , 136, 241-244	0.6	7
183	Synthesis, phase transformations, optical properties and efficiency of gamma radiation shielding by Bi ₂ O ₃ -TeO ₂ -WO ₃ ceramics. <i>Optical Materials</i> , 2021 , 113, 110846	3.3	7
182	Influence of irradiation with heavy Kr ¹⁵⁺ ions on the structural, optical and strength properties of BeO ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 15375-15385	2.1	7
181	The effect of Ni ¹²⁺ heavy ion irradiation on the optical and structural properties of BeO ceramics. <i>Ceramics International</i> , 2020 , 46, 4065-4070	5.1	7
180	Effect of irradiation with heavy Xe ²²⁺ ions with energies of 165-30 MeV on change in optical characteristics of ZrO ₂ ceramic. <i>Optical Materials</i> , 2021 , 120, 111479	3.3	7
179	Assessment of the Irradiation Exposure of PET Film with Swift Heavy Ions Using the Interference-Free Transmission UV-Vis Transmission Spectra. <i>Polymers</i> , 2021 , 13,	4.5	7
178	Modification of PET Ion-Track Membranes by Silica Nanoparticles for Direct Contact Membrane Distillation of Salt Solutions. <i>Membranes</i> , 2020 , 10,	3.8	6
177	Blistering in Helium-Ion-Irradiated Zirconium, Aluminum, and Chromium Nitride Films. <i>Journal of Surface Investigation</i> , 2020 , 14, 359-365	0.5	6
176	Ion Charge Influence on the Molecular Structure of Polyethylene Terephthalate Films after Irradiation with Swift Heavy Ions. <i>Crystals</i> , 2020 , 10, 479	2.3	6
175	Degradation processes and helium swelling in beryllium oxide. <i>Surface and Coatings Technology</i> , 2020 , 386, 125498	4.4	6
174	Study of irradiation effect of Xe and Kr ions on structural properties of Zn nanotubes. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 125301	1.8	6
173	K-, L- and M-shell X-ray productions induced by oxygen ions in the 0.8-1.6 MeV/amu range. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 381, 34-38	1.2	6
172	Determination of Optimal Conditions for Electroless Synthesis of Copper Nanotubes in the Polymer Matrix. <i>Russian Journal of General Chemistry</i> , 2018 , 88, 1213-1218	0.7	6
171	Copper nanostructures into pores of SiO ₂ /Si template: galvanic displacement, chemical and structural characterization. <i>Materials Research Express</i> , 2019 , 6, 105058	1.7	6

170	Catalytic Activity of Composite Track-Etched Membranes Based on Copper Nanotubes in Flow and Static Modes. <i>Petroleum Chemistry</i> , 2019 , 59, 552-557	1.1	6
169	K-, L- and M-shell X-ray productions induced by krypton ions in the 0.8–1.6 MeV/amu range. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 407, 86-91	1.2	6
168	Modification of Track-Etched PET Membranes by Graft Copolymerization of Acrylic Acid and N-Vinylimidazole. <i>Petroleum Chemistry</i> , 2017 , 57, 1233-1241	1.1	6
167	Track-Etch membranes: the Kazakh experience	76,	143-147
166	Radiation resistance of thin TiN films as a result of irradiation with low-energy Kr ¹⁴⁺ ions. <i>Ceramics International</i> , 2020 , 46, 7970-7976	5.1	6
165	Morphology and Microstructure Evolution of Gold Nanostructures in the Limited Volume Porous Matrices. <i>Sensors</i> , 2020 , 20,	3.8	6
164	Study of the effect of doping CeO ₂ in TeO ₂ /MoO ₃ /Bi ₂ O ₃ ceramics on the phase composition, optical properties and shielding efficiency of gamma radiation. <i>Optical Materials</i> , 2021 , 115, 111037	3.3	6
163	Controlled template synthesis and properties of cobalt nanotubes. <i>Petroleum Chemistry</i> , 2016 , 56, 956-962		6
162	Phase transformations as a result of thermal annealing of nanocomposite Fe ₃ Ni / Fe ₃ NiO particles. <i>Ceramics International</i> , 2020 , 46, 1586-1595	5.1	6
161	Structural defects caused by swift ions in fluorite single crystals. <i>Optical Materials</i> , 2018 , 75, 196-203	3.3	6
160	Magnetic Properties of the Densely Packed Ultra-Long Ni Nanowires Encapsulated in Alumina Membrane. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
159	Formation of dislocations and hardening of LiF under high-dose irradiation with 501 MeV ¹² C ions. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	5
158	X-ray production cross sections induced by neon ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 448, 19-25	1.2	5
157	Latent tracks of swift Bi ions in Si ₃ N ₄ . <i>Materials Research Express</i> , 2020 , 7, 025512	1.7	5
156	Kinetics of lattice defects induced in lithium fluoride crystals during irradiation with swift ions at room temperature. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 466, 17-19	1.2	5
155	Effects of C ³⁺ ion irradiation on structural, electrical and magnetic properties of Ni nanotubes. <i>Materials Research Express</i> , 2018 , 5, 035021	1.7	5
154	Effect of thermal annealing on the structural and conducting properties of zinc nanotubes synthesized in the matrix of track-etched membranes. <i>Petroleum Chemistry</i> , 2016 , 56, 330-334	1.1	5
153	Asymmetrical track-etched membranes prepared by double-sided irradiation on the DC-60 cyclotron. <i>Petroleum Chemistry</i> , 2017 , 57, 489-497	1.1	5

152	Vacancy Defects in GaO: First-Principles Calculations of Electronic Structure. <i>Materials</i> , 2021 , 14,	3.5	5
151	INFLUENCE OF IONIZING IRRADIATION ON THE PARAMETERS OF ZN NANOTUBES ARRAYS FOR DESIGN OF FLEXIBLE ELECTRONICS ELEMENTS. <i>Pribory I Metody Izmerenij</i> , 2018 , 9, 66-73	0.4	5
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149	The effect of doping of TiO ₂ thin films with low-energy O ₂ ⁺ ions on increasing the efficiency of hydrogen evolution in photocatalytic reactions of water splitting. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 21142-21153	2.1	5
148	Enhancement of electrochemical detection of Pb ²⁺ by sensor based on track-etched membranes modified with interpolyelectrolyte complexes. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 20368-20377	2.1	5
147	The influence of the energy of incident protons on the defect formation and radiation resistance of AlN ceramics. <i>Solid State Sciences</i> , 2020 , 107, 106367	3.4	5
146	Latent ion tracks in amorphous and radiation amorphized silicon nitride. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 473, 16-23	1.2	5
145	Application of Silver-Loaded Composite Track-Etched Membranes for Photocatalytic Decomposition of Methylene Blue under Visible Light. <i>Membranes</i> , 2021 , 11,	3.8	5
144	Magnetic Nanostructured System for Biomedical Applications Based on FeNi Nanotubes. <i>Nanotechnologies in Russia</i> , 2018 , 13, 331-336	0.6	5
143	Nanoindentation testing of Si ₃ N ₄ irradiated with swift heavy ions. <i>Journal of Nuclear Materials</i> , 2021 , 555, 153120	3.3	5
142	Production of intense metal ion beams at the DC-60 cyclotron. <i>Journal of Instrumentation</i> , 2019 , 14, C02007-C02007	0.4	4
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137	Tolerance of MeN/Si ₃ N ₄ (Me=Zr, Al, Cr) multilayered systems to radiation erosion. <i>Surface and Coatings Technology</i> , 2020 , 399, 126146	4.4	4
136	Depth profiles of aggregate centers and nanodefecteds in LiF crystals irradiated with 34 MeV 84Kr, 56 MeV 40Ar and 12 MeV 12C ions. <i>Surface and Coatings Technology</i> , 2018 , 355, 16-21	4.4	4
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132	Studying the properties of Fe and FeCo nanotubes in polymer ion-track membranes. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 831-835	0.4	4
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129	Fe nanotubes: synthesis, structural and magnetic properties. <i>Chemical Bulletin of Kazakh National University</i> , 2016 , 4-11	0	4
128	Impact of Testing Temperature on the Structure and Catalytic Properties of Au Nanotubes Composites. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2018 , 13, 405	1.7	4
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124	Preparation of Hydrophobic PET Track-Etched Membranes for Separation of Oil-Water Emulsion. <i>Membranes</i> , 2021 , 11,	3.8	4
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119	Influence of media with different acidity on structure of FeNi nanotubes. <i>EPJ Web of Conferences</i> , 2018 , 177, 01003	0.3	3
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111	Raman Study of Polycrystalline Si ₃ N ₄ Irradiated with Swift Heavy Ions. <i>Crystals</i> , 2021 , 11, 1313	2.3	3
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99	Structural transformation of Si-rich SiN _x film on Si via swift heavy ions irradiation. <i>Materials Research Express</i> , 2018 , 5, 035035	1.7	2

98	The study of changes in structural properties of Cu films under ionizing radiation. <i>Materials Research Express</i> , 2018 , 5, 055008	1.7	2
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96	Temperature dependence of swift heavy ion irradiation induced hillocks in TiO ₂ . <i>Materials Research Express</i> , 2018 , 5, 055015	1.7	2
95	Study on changes in structural properties of Ni/Cu dendrites under irradiation by He-particles. <i>Materials Research Express</i> , 2018 , 5, 035054	1.7	2
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93	Investigation of Modification of Zinc Nanotubes by Bombardment with Kr ⁺¹⁴ Ions. <i>High Energy Chemistry</i> , 2018 , 52, 302-306	0.9	2
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81	Implantation of low-energy Ni ¹²⁺ ions to change structural and strength characteristics of ceramics based on SiC. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 2246-2256	2.1	2

80	Ion track template technology for fabrication of CdTe and CdO nanocrystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 481, 30-34	1.2	2
79	Dynamics of Radiation Damage in AlN Ceramics under High-Dose Irradiation, Typical for the Processes of Swelling and Hydrogenation. <i>Crystals</i> , 2020 , 10, 546	2.3	2
78	Study of Changes in Optical and Heat-Conducting Properties of AlN Ceramics under Irradiation with Kr and Xe Heavy Ions. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
77	Structure and magnetic properties of FeCo nanotubes obtained in pores of ion track templates. <i>Nano Structures Nano Objects</i> , 2021 , 26, 100691	5.6	2
76	Study of radiation resistance to helium swelling of AlN ceramics in case of irradiation with low-energy He ²⁺ ions with energy of 40 keV. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 14347	2.1	2
75	Study of Corrosion Resistance and Degradation Mechanisms in LiTiO ₂ -Li ₂ TiO ₃ Ceramic. <i>Crystals</i> , 2021 , 11, 753	2.3	2
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72	Radiation Stability of Copper Films under Irradiation with He ²⁺ Ions. <i>High Energy Chemistry</i> , 2018 , 52, 419-422	0.9	2
71	Study of the radiation disordering mechanisms of AlN ceramic structure as a result of helium swelling. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 21658-21669	2.1	2
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69	Solid-phase synthesis and study of the structural, optical, and photocatalytic properties of the ATiO ₃ , A = Ca, Sr, Ba ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 24436-24445 ^{2.1}		2
68	Study of Phase Formation Processes in Li ₂ ZrO ₃ Ceramics Obtained by Mechanochemical Synthesis. <i>Crystals</i> , 2022 , 12, 21	2.3	2
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66	A simple way to control the filling degree of the SiO ₂ /Si template pores with nickel. <i>Materials Today: Proceedings</i> , 2019 , 7, 860-865	1.4	1
65	Evolution of Structural and Magnetic Characteristics of Template Synthesized Nickel Nanotubes. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2019 , 113-134	0.2	1
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63	Radiation Defects in Aluminum Nitride-Based Ceramics. <i>High Energy Chemistry</i> , 2019 , 53, 71-75	0.9	1

62	Effect of Acidity on the Morphology, Structure, and Composition of Ni Nanotubes. <i>Russian Journal of Physical Chemistry A</i> , 2019 , 93, 125-128	0.7	1
61	Study of the radiation resistance of Ni nanotubes to irradiation with Xe ²²⁺ ions with an energy equal to fission fragments. <i>Surface and Coatings Technology</i> , 2020 , 391, 125719	4.4	1
60	Study of the influence of synthesis conditions on stoichiometry and the properties of nanostructured CdSe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 12756-12764	2.1	1
59	Study of the use of ionizing radiation for the modification of CoO/Co _{0.65} Zn _{0.35} nanostructures. <i>Radiation Effects and Defects in Solids</i> , 2020 , 175, 279-290	0.9	1
58	Study of structural and morphological features of nanostructured coatings based on CoCdSe. <i>Solid State Sciences</i> , 2020 , 106, 106339	3.4	1
57	The Study of the Applicability of Electron Irradiation for FeNi Microtubes Modification. <i>Nanomaterials</i> , 2019 , 10,	5.4	1
56	Synthesis, radical scavenging, and antimicrobial activities of core-shell Au/Ni microtubes. <i>Chemical Papers</i> , 2020 , 74, 2189-2199	1.9	1
55	Secondary fusion reactions in the bombardment of light-element targets with low-energy heavy ions. <i>Physics of Particles and Nuclei Letters</i> , 2014 , 11, 462-466	0.5	1
54	Structural features of Ag-Cu alloy films produced by the codeposition of sputtered metals. <i>Journal of Surface Investigation</i> , 2013 , 7, 1183-1187	0.5	1
53	Electrodeposited ferromagnetic nanotubes: Structure and magnetic properties 2017 ,		1
52	Modification of LiF structure by irradiation with swift heavy ions under oblique incidence. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013 , 49, 012011	0.4	1
51	Induced gyrotropy in thin PET films before and after swift heavy ion irradiation evidenced from analysis of optical interference fringes. <i>Optical Materials</i> , 2022 , 123, 111883	3.3	1
50	Study of Helium Swelling and Embrittlement Mechanisms in SiC Ceramics. <i>Crystals</i> , 2022 , 12, 239	2.3	1
49	Study of Resistance to Helium Swelling of Lithium-Containing Ceramics under High-Temperature Irradiation. <i>Crystals</i> , 2021 , 11, 1350	2.3	1
48	Study of the Effect of Y ₂ O ₃ Doping on the Resistance to Radiation Damage of CeO ₂ Microparticles under Irradiation with Heavy Xe ²²⁺ Ions. <i>Crystals</i> , 2021 , 11, 1459	2.3	1
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46	PIXE detection limits for heavy ion projectiles. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 471, 76-83	1.2	1
45	Effect of structural properties on the vibrational and photoluminescence behavior of Ba _{0.97} Bi _{0.02} Ti _{0.9} Zr _{0.05} Nb _{0.04} O ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 7366-7376	2.1	1

44	Study of irradiation temperature effect on change of structural, optical, and strength properties of BeO ceramics when irradiated with Ar ⁸⁺ and Xe ²² heavy ions. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 10906-10918	2.1	1
43	Alpha-decay induced shortening of fission tracks simulated by in situ ion irradiation. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 299, 1-14	5.5	1
42	Comprehensive study of changes in the optical, structural and strength properties of ZrO ₂ ceramics as a result of phase transformations caused by irradiation with heavy ions. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 17810-17821	2.1	1
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40	Study of structural features and phase transformations in nanocomposites of Fe ₂ O ₃ @NdFeO ₃ type. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 21237-21247	2.1	1
39	MeV-energy Xe ion-induced damage in LiF: The contribution of electronic and nuclear stopping mechanisms. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 1511-1516	1.3	1
38	The effect of electron irradiation on structural properties of cobalt nanotubes. <i>Technical Physics Letters</i> , 2016 , 42, 1018-1021	0.7	1
37	Effects of Doped Oxygen on ZnWO ₄ Crystal Luminescence. <i>Key Engineering Materials</i> , 2016 , 712, 345-350.4		1
36	Investigation of the radiation resistance of nitride ceramics during irradiation with low-energy. <i>Materials Research Express</i> , 2019 , 6, 016416	1.7	1
35	Production of Intense Ion Beams of Boron and Iron Using the MIVOC Method from ECR Ion Source on the DC-60 Cyclotron. <i>Physics of Particles and Nuclei Letters</i> , 2018 , 15, 627-629	0.5	1
34	Study of defect formation processes under heavy ion irradiation of ZnCo ₂ O ₄ nanowires. <i>Optical Materials</i> , 2021 , 118, 111282	3.3	1
33	Formation of Stable Lithium-Containing Ceramics Using Solid-Phase Synthesis Method. <i>Crystals</i> , 2021 , 11, 1177	2.3	1
32	Study of the effect of Fe doping on the structural and optical properties of CdSe films obtained using the electrochemical deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 25385	2.1	1
31	FeO Nanoparticles Doped with Gd: Phase Transformations as a Result of Thermal Annealing. <i>Molecules</i> , 2021 , 26,	4.8	1
30	A Novel Cu ₂ O/ZnO@PET Composite Membrane for the Photocatalytic Degradation of Carbendazim. <i>Nanomaterials</i> , 2022 , 12, 1724	5.4	1
29	To a question of temperature driven gas swelling in helium doped ferritic alloys. <i>Journal of Nuclear Materials</i> , 2020 , 533, 152089	3.3	0
28	PET Ion-Track Membranes: Formation Features and Basic Applications. <i>Springer Proceedings in Physics</i> , 2019 , 461-479	0.2	0
27	Research of Structural, Strength and Thermal Properties of ZrO ₂ @CeO ₂ Ceramics Doped with Yttrium. <i>Crystals</i> , 2022 , 12, 242	2.3	0

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25	Effect of Irradiation with Low-Energy He ²⁺ Ions on Degradation of Structural, Strength and Heat-Conducting Properties of BeO Ceramics. <i>Crystals</i> , 2022 , 12, 69	2.3	0
24	Structure properties of CdTe nanocrystals created in SiO ₂ /Si ion track templates. <i>Surface and Coatings Technology</i> , 2020 , 401, 126269	4.4	0
23	Neutron yields upon irradiation of thick targets by ions with energies below 1.75 MeV/Nucleon. <i>Physics of Particles and Nuclei Letters</i> , 2016 , 13, 198-203	0.5	0
22	Study of Radiation Resistance to Helium Swelling of Li ₂ ZrO ₃ /LiO and Li ₂ ZrO ₃ Ceramics. <i>Crystals</i> , 2022 , 12, 384	2.3	0
21	Catalytic Activity of Ni Nanotubes Covered with Nanostructured Gold. <i>Processes</i> , 2021 , 9, 2279	2.9	0
20	Photo-induced graft (co)polymerization of glycidyl methacrylate and acrylonitrile on PET ion-track membranes for electrochemical detection of uranyl ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 648, 129086	5.1	0
19	Investigation of the Structural Changes and Catalytic Properties of FeNi Nanostructures as a Result of Exposure to Gamma Radiation. <i>Crystals</i> , 2020 , 10, 254	2.3	
18	Radiation Defects in Aluminum Nitride under Irradiation with Low-Energy C ²⁺ Ions. <i>High Energy Chemistry</i> , 2019 , 53, 143-146	0.9	
17	Structure of Zinc Nanotubes. <i>Crystallography Reports</i> , 2019 , 64, 615-620	0.6	
16	Radiation Defects in Beryllium Oxide under Irradiation with Ni ¹²⁺ Heavy Ions. <i>High Energy Chemistry</i> , 2019 , 53, 296-299	0.9	
15	Effect of Irradiation with Fe ⁷⁺ Ions on the Structural Properties of TiO ₂ Films. <i>High Energy Chemistry</i> , 2019 , 53, 321-325	0.9	
14	Influence of deposition potential on structure of Zn-based nanotubes. <i>Materials Today: Proceedings</i> , 2019 , 7, 855-859	1.4	
13	Kr and Xe ion induced aggregation processes in LiF crystals during irradiation and thermal annealing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 15, 012031	0.4	
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