

Tetiana R Tatarchuk

List of Publications by Year in descending order

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65
papers

3,232
citations

136885

32
h-index

155592

55
g-index

65
all docs

65
docs citations

65
times ranked

2632
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of cobalt substitution on structural, elastic, magnetic and optical properties of zinc ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 731, 1256-1266.	2.8	208
2	Highly efficient adsorption of strontium ions by carbonated mesoporous TiO ₂ . <i>Journal of Molecular Liquids</i> , 2019, 285, 742-753.	2.3	204
3	Structural, Optical, and Magnetic Properties of Zn-Doped CoFe ₂ O ₄ Nanoparticles. <i>Nanoscale Research Letters</i> , 2017, 12, 141.	3.1	193
4	Adsorption of textile dye using para-aminobenzoic acid modified activated carbon: Kinetic and equilibrium studies. <i>Journal of Molecular Liquids</i> , 2019, 296, 112075.	2.3	168
5	Structural characterization and antistructure modeling of cobalt-substituted zinc ferrites. <i>Journal of Alloys and Compounds</i> , 2017, 694, 777-791.	2.8	165
6	Removal of caffeine, nicotine and amoxicillin from (waste)waters by various adsorbents. A review. <i>Journal of Environmental Management</i> , 2020, 261, 110236.	3.8	152
7	Synthesis, morphology, crystallite size and adsorption properties of nanostructured Mg-Zn ferrites with enhanced porous structure. <i>Journal of Alloys and Compounds</i> , 2020, 819, 152945.	2.8	118
8	Halloysite nanotubes and halloysite-based composites for environmental and biomedical applications. <i>Journal of Molecular Liquids</i> , 2020, 309, 113077.	2.3	112
9	Spinel Ferrite Nanoparticles: Synthesis, Crystal Structure, Properties, and Perspective Applications. <i>Springer Proceedings in Physics</i> , 2017, , 305-325.	0.1	110
10	Facile microwave-assisted green synthesis of NiO nanoparticles from <i>Andrographis paniculata</i> leaf extract and evaluation of their photocatalytic and anticancer activities. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 673, 70-80.	0.4	98
11	Adsorptive removal of toxic Methylene Blue and Acid Orange 7 dyes from aqueous medium using cobalt-zinc ferrite nanoadsorbents. , 0, 150, 374-385.		94
12	A review on removal of uranium(VI) ions using titanium dioxide based sorbents. <i>Journal of Molecular Liquids</i> , 2019, 293, 111563.	2.3	84
13	Green synthesis, structure, cations distribution and bonding characteristics of superparamagnetic cobalt-zinc ferrites nanoparticles for Pb(II) adsorption and magnetic hyperthermia applications. <i>Journal of Molecular Liquids</i> , 2021, 328, 115375.	2.3	72
14	Elastic properties and antistructural modeling for Nickel-Zinc ferrite-aluminates. <i>Materials Chemistry and Physics</i> , 2018, 207, 534-541.	2.0	71
15	Effect of Zn addition on structural, magnetic properties and anti-structural modeling of magnesium-nickel nano ferrites. <i>Materials Chemistry and Physics</i> , 2019, 229, 78-86.	2.0	64
16	Green Synthesis of Metal and Metal Oxide Nanoparticles: Principles of Green Chemistry and Raw Materials. <i>Magnetochemistry</i> , 2021, 7, 145.	1.0	64
17	Adsorption of Sr(II) ions and salicylic acid onto magnetic magnesium-zinc ferrites: isotherms and kinetic studies. <i>Environmental Science and Pollution Research</i> , 2020, 27, 26681-26693.	2.7	59
18	Microwave-assisted green synthesis of SnO ₂ nanoparticles and their optical and photocatalytic properties. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 671, 17-23.	0.4	58

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19	Effects of chemisorbed arsenate groups on the mesoporous titania morphology and enhanced adsorption properties towards Sr(II) cations. <i>Journal of Molecular Liquids</i> , 2019, 282, 587-597.	2.3	58
20	Synthesis and magnetic properties of spinel Zn _{1-x} Ni _x Fe ₂ O ₄ (0.0 ≤ x ≤ 1.0) nanoparticles synthesized by microwave combustion method. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 192-199.	1.0	56
21	Structure, morphology and adsorption properties of titania shell immobilized onto cobalt ferrite nanoparticle core. <i>Journal of Molecular Liquids</i> , 2020, 297, 111757.	2.3	55
22	Spinel cobalt(II) ferrite-chromites as catalysts for H ₂ O ₂ decomposition: Synthesis, morphology, cation distribution and antistructure model of active centers formation. <i>Ceramics International</i> , 2020, 46, 27517-27530.	2.3	54
23	Magnesium-zinc ferrites as magnetic adsorbents for Cr(VI) and Ni(II) ions removal: Cation distribution and antistructure modeling. <i>Chemosphere</i> , 2021, 270, 129414.	4.2	54
24	Dual control on structure and magnetic properties of Mg ferrite: Role of swift heavy ion irradiation. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 521-528.	1.0	50
25	Synthesis of hierarchical structured rare earth metal-doped Co ₃ O ₄ by polymer combustion method for high performance electrochemical supercapacitor electrode materials. <i>Ionics</i> , 2020, 26, 2051-2061.	1.2	47
26	Structure-redox reactivity relationships in Co _{1-x} Zn _x Fe ₂ O ₄ : the role of stoichiometry. <i>New Journal of Chemistry</i> , 2019, 43, 3038-3049.	1.4	46
27	Effects of enhanced clusterization of water at a surface of partially silylated nanosilica on adsorption of cations and anions from aqueous media. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 95-104.	2.2	45
28	Inversion degree, morphology and colorimetric parameters of cobalt aluminate nanopigments depending on reductant type in solution combustion synthesis. <i>Ceramics International</i> , 2020, 46, 14674-14685.	2.3	45
29	Photovoltaic device performance of pure, manganese (Mn ²⁺) doped and irradiated CuInSe ₂ thin films. <i>New Journal of Chemistry</i> , 2018, 42, 11642-11652.	1.4	40
30	Make it clean, make it safe: A review on virus elimination via adsorption. <i>Chemical Engineering Journal</i> , 2021, 412, 128682.	6.6	40
31	Green synthesis of cobalt ferrite nanoparticles using <i>Cydonia oblonga</i> extract: structural and Mössbauer studies. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 672, 54-66.	0.4	38
32	Adsorption of Sr(II) cations onto phosphated mesoporous titanium dioxide: Mechanism, isotherm and kinetics studies. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103430.	3.3	36
33	Accelerated charge transfer in well-designed S-scheme Fe@TiO ₂ /Boron carbon nitride heterostructures for high performance tetracycline removal and selective photo-reduction of CO ₂ greenhouse gas into CH ₄ fuel. <i>Chemosphere</i> , 2022, 287, 132301.	4.2	35
34	Mössbauer spectroscopy of Mg Cu Zn Fe O (x = 0.0, 0.2 and 0.5) ferrites system irradiated by β -rays. <i>Physica B: Condensed Matter</i> , 2018, 530, 195-200.	1.3	34
35	Physicochemical and electrochemical properties of Gd ³⁺ -doped ZnSe thin films fabricated by single-step electrochemical deposition process. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1197-1207.	1.2	33
36	Comparative study of structural, optical and electrical properties of electrochemically deposited Eu, Sm and Gd doped ZnSe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5638-5648.	1.1	30

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37	Zeolite-based Composites as Slow Release Fertilizers (Review). <i>Physics and Chemistry of Solid State</i> , 2020, 21, 89-104.	0.3	25
38	Ni addition induced modification of structural, magnetic properties and antistructural modeling of $Zn_{1-x}Ni_xFe_2O_4$ ($x = 0.0 - 1.0$) nanoferrites. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 674, 130-141.	0.4	23
39	La-doped $Ni_{0.5}Co_{0.5}Fe_2O_4$ nanoparticles: effect of cobalt precursors on structure and morphology. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 674, 110-119.	0.4	23
40	Green and Ecofriendly Materials for the Remediation of Inorganic and Organic Pollutants in Water. , 2019, , 69-110.		22
41	Photocatalytic degradation of dyes using rutile TiO ₂ synthesized by reverse micelle and low temperature methods: real-time monitoring of the degradation kinetics. <i>Journal of Molecular Liquids</i> , 2021, 342, 117407.	2.3	22
42	Eco-friendly synthesis of cobalt-zinc ferrites using quince extract for adsorption and catalytic applications: An approach towards environmental remediation. <i>Chemosphere</i> , 2022, 294, 133565.	4.2	22
43	Structure and the catalysis mechanism of oxidative chlorination in nanostructural layers of a surface of alumina. <i>Nanoscale Research Letters</i> , 2014, 9, 357.	3.1	20
44	Two-Level Model Description of Superparamagnetic Relaxation in Nanoferrites (Co,Zn)Fe ₂ O ₄ . <i>Acta Physica Polonica A</i> , 2018, 134, 993-998.	0.2	19
45	Catalytic and Photocatalytic Properties of Oxide Spinel. , 2019, , 1701-1750.		16
46	Effect of Polyurea Coating on Corrosion Resistance Over Mild Steel and Aluminium Substrates for Liquid Storage Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 670, 60-73.	0.4	15
47	Optimization of TiO ₂ -P25 photocatalyst dose and H ₂ O ₂ concentration for advanced photo-oxidation using smartphone-based colorimetry. <i>Water Science and Technology</i> , 2021, 84, 469-483.	1.2	15
48	Ways to Improve the Efficiency of ZnO-based Photocatalysts (Review). <i>Physics and Chemistry of Solid State</i> , 2020, 21, 300-311.	0.3	15
49	Green synthesis of cobalt ferrite using grape extract: the impact of cation distribution and inversion degree on the catalytic activity in the decomposition of hydrogen peroxide. <i>Emergent Materials</i> , 2022, 5, 89-103.	3.2	14
50	Synthesis, structure and morphology of magnesium ferrite nanoparticles, synthesized via "green" method. <i>Physics and Chemistry of Solid State</i> , 2021, 22, 195-203.	0.3	13
51	Cr content-dependent modification of structural, magnetic properties and bandgap in green synthesized Co-Cr nano-ferrites. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 699, 39-50.	0.4	11
52	Effect of surface-modified fly ash on compressive strength of cement mortar. <i>Materials Today: Proceedings</i> , 2021, 35, 534-537.	0.9	11
53	Removal of Congo Red dye, polar and non-polar compounds from aqueous solution using magnesium aluminate nanoparticles. <i>Materials Today: Proceedings</i> , 2021, 35, 518-522.	0.9	9
54	Green Synthesis of Magnetic Spinel Nanoparticles. <i>Springer Proceedings in Physics</i> , 2019, , 389-398.	0.1	8

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55	Batch microreactor for photocatalytic reactions monitoring. <i>Physics and Chemistry of Solid State</i> , 2020, 21, 338-346.	0.3	6
56	Crystal growth and spectroscopic studies of new ammonium potassium zinc sulfate hexahydrate single crystal. <i>Vibrational Spectroscopy</i> , 2019, 104, 102942.	1.2	4
57	Removal of Toxins from the Environment Using Date Palm Seeds. <i>Sustainable Agriculture Reviews</i> , 2019, , 207-245.	0.6	4
58	Optimal H ₂ O ₂ concentration in advanced oxidation over titanium dioxide photocatalyst. <i>Physics and Chemistry of Solid State</i> , 2021, 22, 73-79.	0.3	4
59	Green synthesis of zinc ferrite. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 719, 45-52.	0.4	4
60	Catalytic and Photocatalytic Properties of Oxide Spinel. , 2018, , 1-50.		4
61	Ni Addition Induced Changes in Structural, Magnetic, and Cationic Distribution of Zn _{0.75} ~ ^x Ni _x Mg _{0.15} Cu _{0.1} Fe ₂ O ₄ Nano-ferrite. <i>Springer Proceedings in Physics</i> , 2018, , 357-375.	0.1	3
62	Morphology, phase composition and radiological properties of fly ash obtained from the Burshtyn thermal power plant. <i>Physics and Chemistry of Solid State</i> , 2018, 19, 171-178.	0.3	3
63	Catalytic activity of magnetite and its magnetic heating properties. <i>Materials Today: Proceedings</i> , 2022, 62, 5805-5811.	0.9	3
64	Influence of Mg Content on Structural and Magnetic Properties of Green-Synthesized Li _{0.5} ~ ^x Mg _x Fe _{2.5} ~ ^x O ₄ (0.0 ~ ^x 0.8) Nanoferrites. <i>Springer Proceedings in Physics</i> , 2019, , 431-442.	0.1	2
65	Crystalloquasichemical Model of Spinel CoFe ₂ O ₄ Formation, Obtained by Chemical co-Precipitation Method. <i>Physics and Chemistry of Solid State</i> , 2015, 16, 540-546.	0.3	2