Відповідність наукових праць наукових керівників кафедри хімії
темам дисертацій здобувачів наукового ступеня доктора філософії за ОНП Хімія

№ п/ п	ПІП аспіранта	Рік вступу, форма навчання	Тема дисертації	ПІБ наукового керівника, науковий ступінь, вчене звання, посада	Перелік наукових праць наукового керівника, що відповідають темі дисертації (за останні п'ять років)
1.	**Савка Христина Олегівна**	2017, заочна форма навчання	Морфологія та адсорбційні властивості TiO_2, допованого рідкоземельними елементами	Миронюк Іван Федорович, доктор хімічних наук, професор, завідувач кафедри хімії	**2021** 1. Danyliuk N., **Mironyuk I.,** Tatarchuk T., Shyichuk A. Optimal H_2O_2 concentration in advanced oxidation over titanium dioxide photocatalyst. Physics and Chemistry of Solid State. 22, 1 (Feb. 2021), 73-79. https://doi.org/10.15330/pcss.22.1.73-79. *(SCOPUS)* 2. Hanna Vasylyeva, **Ivan Mironyuk**, Igor Mykytyn, Khrystyna Savka, Equilibrium studies of yttrium adsorption from aqueous solutions by titanium dioxide. Applied Radiation and Isotopes, 2021, 168, 109473. https://doi.org/10.1016/j.apradiso.2020.109473 (SCOPUS) 3. I.F. Myronyuk, V.O. Kotsyubynsky, V.M. Boychuk, I.M. Mykytyn, V.M. Gun'ko. Photocatalytic Properties of Sn-doped TiO2. J. Nano- Electron. Phys. 13 No 1, 01001 (2021) https://doi.org/10.21272/jnep.13(1).01001 **2020** 1. **Ivan Mironyuk**, Igor Mykytyn, Hanna Vasylyeva, Khrystyna Savka. Sodium-modified mesoporous TiO_2: Sol-gel synthesis, characterization and adsorption activity toward heavy metal cations. Journal of Molecular Liquids 316 (2020): 113840. https://doi.org/10.1016/j.molliq.2020.113840 (SCOPUS) 2. **I. F. Mironyuk**, I. M. Mykytyn, O. Ye. Kaglyan, D. I. Gudkov, H. V. Vasylyeva. 90Sr adsorption from the aquatic environment of Chornobyl exclusion zone by chemically enhanced TiO_2. Nucl. Phys. At. Energy 2020, volume 21, issue 4, pages 347-353. https://doi.org/10.15407/jnpae2020.04.347 3. Tetiana Tatarchuk, **Ivan Mironyuk**, Volodymyr Kotsyubynsky, Alexander Shyichuk, Mariana Myslin, Volodymyra Boychuk, Structure, morphology and adsorption properties of titania shell immobilized onto cobalt ferrite nanoparticle core, Journal of Molecular Liquids, Volume 297, 2020, 111757, https://doi.org/10.1016/j.molliq.2019.111757. *(SCOPUS; IF = 4.561; Q1)*

					4. **Mironyuk I.,** Soltys L., Tatarchuk T., Tsinurchyn V. (2020). Ways to Improve the Efficiency of TiO_2-based Photocatalysts (Review). Physics and Chemistry of Solid State, 21(2), 300-311. https://doi.org/10.15330/pcss.21.2.300-311 *(SCOPUS, WoS)* 5. **Mironyuk I. F.,** Soltys L. M., Tatarchuk T. R., Savka K. O. (2020). Methods of Titanium Dioxide Synthesis (Review). Physics and Chemistry of Solid State, 21(3), 462-477. https://doi.org/10.15330/pcss.21.3.462-477 *(SCOPUS, WoS)* 6. **I.F. Mironyuk** , T.R. Tatarchuk, V.O. Kotsyubynsky , V.I. Mandzyuk , Kh.O. Savka, I.M. Mykytyn. Structure, Morphology and Conductive Properties of Sn-doped TiO_2. J. Nano- Electron. Phys. 12 No 6, 06024 (2020), https://doi.org/10.21272/jnep.12(6).06024 *(SCOPUS)* **2019** 7. **Ivan Mironyuk**, Tetiana Tatarchuk, Hanna Vasylyeva, Mu. Naushad, Igor Mykytyn, Adsorption of Sr(II) cations onto phosphated mesoporous titanium dioxide: Mechanism, isotherm and kinetics studies, Journal of Environmental Chemical Engineering, Volume 7, Issue 6, 2019, 103430, https://doi.org/10.1016/j.jece.2019.103430. *(SCOPUS; Q1)* 8. Tetiana Tatarchuk, Alexander Shyichuk, **Ivan Mironyuk**, Mu Naushad, A review on removal of uranium(VI) ions using titanium dioxide based sorbents, Journal of Molecular Liquids, 2019, 111563, https://doi.org/10.1016/j.molliq.2019.111563. *(SCOPUS, IF = 4.561; Q1)* 9. **I. Mironyuk**, T. Tatarchuk, Mu. Naushad, H. Vasylyeva, I. Mykytyn, Highly efficient adsorption of strontium ions by carbonated mesoporous TiO_2, Journal of Molecular Liquids, 285 (2019) 742-753, https://doi.org/10.1016/j.molliq.2019.04.111 . *(SCOPUS, IF = 4.51; Q1)* 10. **I. Mironyuk**, T. Tatarchuk, H. Vasylyeva, V. M. Gun'ko, I. Mykytyn, Effects of chemosorbed arsenate groups on the mesoporous titania morphology and enhanced adsorption properties towards Sr(II) cations, Journal of Molecular Liquids, 282 (2019) 587-597, https://doi.org/10.1016/j.molliq.2019.03.026. *(SCOPUS, IF=4.51; Q1)* 11. **I.F. Mironyuk**, V.M. Gun'ko, H.V. Vasylyeva, O.V. Goncharuk, T.R. Tatarchuk, V.I. Mandzyuk, N.A. Bezruka, T.V. Dmytrotsa, Effects of enhanced clusterization of water at a surface of partially silylated nanosilica on adsorption of cations and anions from

					aqueous media, Microporous and Mesoporous Materials, Volume 277, 2019, Pages 95-104, https://doi.org/10.1016/j.micromeso.2018.10.016. *(SCOPUS, IF=3.65; Q1)* 12. H. Vasylyeva, **I. Mironyuk**, I. Mykytyn, N. Danyliyk. Adsorption of Barium and Zinc Ions by Mesoporous TiO_2 with Chemosorbed Carbonate Groups, Physics And Chemistry Of Solid State, V. 20, № 3 (2019) P. 282-290. http://journals.pu.if.ua/index.php/pcss/article/viewFile/3944/4081 (Web of Science) **2018** 1. V.O. Kotsyubynsky, **I.F. Myronyuk**, L.I. Myronyuk, V.L. Chelyadyn, M.H. Mizilevska, A.B. Hrubiak, O.K. Tadeush, F.M. Nizamutdinov. The effect of pH on the nucleation of titania by hydrolysis of TiCl4 // Materialwissenschaft und Werkstofftechnik.- 2016.- V. 47, Iss. 2-3.- P. 288–294. http://onlinelibrary.wiley.com/doi/10.1002/mawe.201600491/full (SCOPUS)
2.	**Лясковська Марія Романівна**	2017 р., денна форма навчання	Вплив поверхневого модифікування та катіонного заміщення на властивості гібридних нанокомпозитів на основі шпінельних феритів	Татарчук Тетяна Романівна, кандидат хімічних наук, доцент, доцент кафедри хімії, директор навчально-наукового центру хімічного матеріалознавства і нанотехнологій	**2021** 1. **Tetiana Tatarchuk**, Mariana Myslin, Ivanna Lapchuk, Alexander Shyichuk, Arun Prasad Murthy, Renata Gargula, Piotr Kurzydło, Bogdan F. Bogacz, Antoni T. Pędziwiatr, Magnesium-zinc ferrites as magnetic adsorbents for Cr(VI) and Ni(II) ions removal: Cation distribution and antistructure modeling, Chemosphere, Volume 270, 2021, 129414, https://doi.org/10.1016/j.chemosphere.2020.129414 *(SCOPUS; IF = 5.778; Q1)* 2. **Tetiana Tatarchuk**, Alexander Shyichuk, Zbigniew Sojka, Joanna Gryboś, Mu. Naushad, Volodymyr Kotsyubynsky, Maria Kowalska, Sylwia Kwiatkowska-Marks, Nazarii Danyliuk, Green synthesis, structure, cations distribution and bonding characteristics of superparamagnetic cobalt-zinc ferrites nanoparticles for Pb(II) adsorption and magnetic hyperthermia applications, Journal of Molecular Liquids, Volume 328, 2021, 115375, https://doi.org/10.1016/j.molliq.2021.115375. *(SCOPUS; IF = 5.065; Q1)* **2020**

					3. **Tetiana Tatarchuk**, Alexander Shyichuk, Ilona Trawczyńska, Ivan Yaremiy, Antoni T. Pędziwiatr, Piotr Kurzydło, Bogdan F. Bogacz, Renata Gargula, Spinel cobalt(II) ferrite-chromites as catalysts for H2O2 decomposition: Synthesis, morphology, cation distribution and antistructure model of active centers formation, Ceramics International, Volume 46, Issue 17, 2020, Pages 27517-27530, https://doi.org/10.1016/j.ceramint.2020.07.243. *(SCOPUS; IF = 3.45; Q1)* 4. **Tetiana Tatarchuk**, Mariana Myslin, Ivan Mironyuk, Mohamed Bououdina, Antoni T. Pędziwiatr, Renata Gargula, Bogdan F. Bogacz, Piotr Kurzydło, Synthesis, morphology, crystallite size and adsorption properties of nanostructured Mg–Zn ferrites with enhanced porous structure, Journal of Alloys and Compounds, Volume 819, 2020, 152945, https://doi.org/10.1016/j.jallcom.2019.152945. *(SCOPUS; IF = 4.175; Q1)* 5. **Tetiana Tatarchuk**, Ivan Mironyuk, Volodymyr Kotsyubynsky, Alexander Shyichuk, Mariana Myslin, Volodymyra Boychuk, Structure, morphology and adsorption properties of titania shell immobilized onto cobalt ferrite nanoparticle core, Journal of Molecular Liquids, Volume 297, 2020, 111757, https://doi.org/10.1016/j.molliq.2019.111757. *(SCOPUS; IF = 4.561; Q1)* 6. **Tetiana Tatarchuk**, Mu. Naushad, Jolanta Tomaszewska, Przemysław Kosobucki, Mariana Myslin, Hanna Vasylyeva, Piotr Ścigalski, Adsorption of Sr(II) ions and salicylic acid onto magnetic magnesium-zinc ferrites: isotherms and kinetic studies, Environmental Science and Pollution Research (2020), https://doi.org/10.1007/s11356-020-09043-1 *(SCOPUS; IF = 3.208; Q1)* 7. P. Tiwari, S. N. Kane, U. P. Deshpande, **Tetiana Tatarchuk**, F. Mazaleyrat & B. Rachiy (2020) Cr content-dependent modification of structural, magnetic properties and bandgap in green synthesized Co–Cr nano-ferrites, Molecular Crystals and Liquid Crystals, 699:1, 39-50, DOI: 10.1080/15421406.2020.1732537 **2019** 8. P. Tiwari, R. Verma, S. N. Kane, **Tetiana Tatarchuk**, F. Mazaleyrat, Effect of Zn addition On Structural, Magnetic Properties and Anti-structural Modeling of magnesium-nickel nano ferrites, Materials Chemistry and Physics 229 (2019) 78–86,

					https://doi.org/10.1016/j.matchemphys.2019.02.030 *(SCOPUS, IF=2.21; Q2)* 9. **T. Tatarchuk**, N. Paliychuk, R. B. Bitra, A. Shyichuk, Mu. Naushad, I. Mironyuk, D. Ziolkovska, Adsorptive removal of toxic Methylene blue and Acid Orange 7 dyes from aqueous medium using cobalt-zinc ferrite nanoadsorbents, Desalination and Water Treatment 150 (2019) 374–385, https://doi.org/10.5004/dwt.2019.23751 *(SCOPUS, IF=1.38; Q3)* 10. S. Raghuvanshi, P. Tiwari, S.N. Kane, D.K. Avasthi, F. Mazaleyrat, **Tetiana Tatarchuk**, Ivan Mironyuk, Dual control on structure and magnetic properties of Mg ferrite: Role of swift heavy ion irradiation, Journal of Magnetism and Magnetic Materials, Volume 471, 2019, Pages 521-528, https://doi.org/10.1016/j.jmmm.2018.10.004. *(SCOPUS, IF=3.046; Q2)* 11. A. Abu El-Fadl, A.M. Hassan, M.H. Mahmoud, **Tetiana Tatarchuk**, I.P. Yaremiy, A.M. Gismelssed, M.A. Ahmed, Synthesis and magnetic properties of spinel Zn1−xNixFe2O4 ($0.0 \leq x \leq 1.0$) nanoparticles synthesized by microwave combustion method, Journal of Magnetism and Magnetic Materials, Volume 471, 2019, Pages 192-199, https://doi.org/10.1016/j.jmmm.2018.09.074. *(SCOPUS, IF=3.046; Q2)* 12. Mariia Liaskovska, **Tetiana Tatarchuk**, Mohamed Bououdina, Ivan Mironyuk, Green Synthesis of Magnetic Spinel Nanoparticles, In: Fesenko O., Yatsenko L. (eds) Nanophotonics, Nanooptics, Nanobiotechnology, and Their Applications. NANO 2018. Springer Proceedings in Physics, vol 222. Springer, Cham, https://doi.org/10.1007/978-3-030-17755-3_25 *(SCOPUS)* 13. P. Tiwari, S. N. Kane, R. Verma, **T. Tatarchuk**, F. Mazaleyrat, Influence of Mg Content on Structural and Magnetic Properties of Green-Synthesized $Li_{0.5-0.5x}Mg_xFe_{2.5-0.5x}O_4$ ($0.0 \leq x \leq 0.8$) Nanoferrites, In: Fesenko O., Yatsenko L. (eds) Nanophotonics, Nanooptics, Nanobiotechnology, and Their Applications. NANO 2018. Springer Proceedings in Physics, vol 222. Springer, Cham, https://doi.org/10.1007/978-3-030-17755-3_29 *(SCOPUS).* 14. **T. Tatarchuk**, N. Paliychuk, M. Pacia, W. Kaspera, W. Macyk, A. Kotarba, B. F. Bogacz, A. T. Pędziwiatr, I. Mironyuk, R. Gargula, P. Kurzydło, A. Shyichuk, Structure–redox reactivity relationships in Co1−xZnxFe2O4: the role of stoichiometry, New

					J. Chem. 43 (2019) 3038-3049, https://doi.org/10.1039/C8NJ05329D *(SCOPUS, IF=3.24; Q2)* **2018** 15. Irina Starko, **Tetiana Tatarchuk**, Mohamed Bououdina (2018) La-doped $Ni_{0.5}Co_{0.5}Fe_2O_4$ nanoparticles: effect of cobalt precursors on structure and morphology, Molecular Crystals and Liquid Crystals, 674:1, 110-119, https://doi.org/10.1080/15421406.2019.1578517 *(SCOPUS, IF = 0.67, Q3)* 16. R. Verma, S. N. Kane, P. Tiwari, S. S. Modak, **T. Tatarchuk**, F. Mazaleyrat (2018) 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, Molecular Crystals and Liquid Crystals, 674:1, 130-141, https://doi.org/10.1080/15421406.2019.1578519 *(SCOPUS, IF = 0.67, Q3)* 17. **Tetiana Tatarchuk**, Maria Liaskovska, Volodymyr Kotsyubynsky, Mohamed Bououdina, Green synthesis of cobalt ferrite nanoparticles using cydonia oblonga extract: structural and mossbauer studies, Molecular Crystals and Liquid Crystals, 672:1 (2018) 54-66, https://doi.org/10.1080/15421406.2018.1542107 *(SCOPUS, IF = 0.67, Q3)* 18. S. Raghuvanshi, S. N. Kane, **T. R. Tatarchuk**, F. Mazaleyrat, Effect of Zn addition on structural, magnetic properties, antistructural modeling of $Co_{1-x}Zn_xFe_2O_4$ nano ferrite, AIP Conference Proceedings 1953, 030055 (2018), https://doi.org/10.1063/1.5032390 *(SCOPUS)* 19. R. Sharma, S. Raghuvanshi, M. Satalkar, S. N. Kane, **T. R. Tatarchuk**, F. Mazaleyrat, Effect of 120 MeV $^{28}Si^{9+}$ ion irradiation on structural and magnetic properties of $NiFe_2O_4$ and $Ni_{0.5}Zn_{0.5}Fe_2O_4$, AIP Conference Proceedings 1953, 030117 (2018); https://doi.org/10.1063/1.5032452 *(SCOPUS)* 20. S. N. Kane, S. Raghuvanshi, M. Satalkar, V. R. Reddy, U. P. Deshpande, **T.R. Tatarchuk**, F. Mazaleyrat, Synthesis, characterization and antistructure modeling of Ni nanoferrite, AIP Conference Proceedings 1953, 030089 (2018); https://doi.org/10.1063/1.5032424 *(SCOPUS)* 21. B. Rajesh Babu, **Tetiana Tatarchuk**, Elastic properties and antistructural modeling for Nickel-Zinc Ferrite-Aluminates (2018) Materials Chemistry and Physics 207: 534-541, https://doi.org/10.1016/j.matchemphys.2017.12.084 *(SCOPUS, IF=2.283, Q2)*

					22. M.A. Ahmed, H.E. Hassan, M.M. Eltabey, K. Latka, **T.R. Tatarchuk**, Mössbauer spectroscopy of $Mg_xCu_{0.5-x}Zn_{0.5}Fe_2O_4$ (x = 0.0, 0.2 and 0.5) ferrites system irradiated by γ-rays, Physica B: Condensed Matter (2018) 530: 195-200, https://doi.org/10.1016/j.physb.2017.10.125 *(SCOPUS, IF=1.352, Q2)* 23. **T.R. Tatarchuk**, N.D. Paliychuk, M. Bououdina, B. Al-Najar, M. Pacia, W. Macyk, A. Shyichuk, Effect of cobalt substitution on structural, elastic, magnetic and optical properties of zinc ferrite nanoparticles, Journal of Alloys and Compounds (2018) 731: 1256-1266, https://doi.org/10.1016/j.jallcom.2017.10.103 *(SCOPUS, IF=4.175, Q1)* 24. Satalkar M., Kane S.N., **Tatarchuk T**., Araújo J.P. (2018) Ni Addition Induced Changes in Structural, Magnetic, and Cationic Distribution of $Zn_{0.75-x}Ni_xMg_{0.15}Cu_{0.1}Fe_2O_4$ Nano-ferrite. In: Fesenko O., Yatsenko L. (eds) Nanochemistry, Biotechnology, Nanomaterials, and Their Applications. NANO 2017. Springer, Cham, Springer Proceedings in Physics, Volume 214, 2018, Pages 357-375, https://doi.org/10.1007/978-3-319-92567-7_23 *(SCOPUS)* 25. B.F. Bogacz, R. Gargula, P. Kurzydło, A.T. Pedziwiatr, **T. Tatarchuk**, N. Paliychuk, Two-Level Model Description of Superparamagnetic Relaxation in Nanoferrites $(Co,Zn)Fe_2O_4$, Acta Physica Polonica A, Vol. 134 (2018), No. 5, 993-997, https://doi.org/10.12693/APhysPolA.134.993 *(SCOPUS, IF=0.75, Q3)* **2017** 26. **T. Tatarchuk**, M. Bououdina, W. Macyk, O. Shyichuk, N. Paliychuk, I. Yaremiy, B. Al-Najar, M. Pacia. Structural, Optical, and Magnetic Properties of Zn-Doped CoFe2O4 Nanoparticles. Nanoscale Research Letters 2017; 12(1): 141-151. https://doi.org/10.1186/s11671-017-1899-x *(SCOPUS, IF=3.196, Q2)* 27. **T. Tatarchuk**, M. Bououdina, N. Paliychuk, I. Yaremiy, V. Moklyak. Structural characterization and antistructure modeling of cobalt-substituted zinc ferrites. Journal of Alloys and Compounds 2017; 694: 777-791. https://doi.org/10.1016/j.jallcom.2016.10.067 *(SCOPUS, IF=4.175, Q1)* 28. **Tatarchuk T.,** Bououdina M., Judith Vijaya J., John Kennedy L. (2017) Spinel Ferrite Nanoparticles: Synthesis, Crystal Structure,

					Properties, and Perspective Applications. In: Fesenko O., Yatsenko L. (eds) Nanophysics, Nanomaterials, Interface Studies, and Applications. Springer Proceedings in Physics, vol 195. Springer, Cham, pp.305-325, https://doi.org/10.1007/978-3-319-56422-7_22
3.	**Старко Ірина Юріївна**	2017 р., денна форма навчання	Синтез та фізико-хімічні властивості магнітокерованих оксидних наноструктур, допованих іонами рідкісноземельних елементів.	Татарчук Тетяна Романівна, кандидат хімічних наук, доцент, доцент кафедри хімії, директор навчально-наукового центру хімічного матеріалознавства і нанотехнологій	**2021** 1. **Tetiana Tatarchuk**, Mariana Myslin, Ivanna Lapchuk, Alexander Shyichuk, Arun Prasad Murthy, Renata Gargula, Piotr Kurzydło, Bogdan F. Bogacz, Antoni T. Pędziwiatr, Magnesium-zinc ferrites as magnetic adsorbents for Cr(VI) and Ni(II) ions removal: Cation distribution and antistructure modeling, Chemosphere, Volume 270, 2021, 129414, https://doi.org/10.1016/j.chemosphere.2020.129414 *(SCOPUS; IF = 5.778; Q1)* 2. **Tetiana Tatarchuk**, Alexander Shyichuk, Zbigniew Sojka, Joanna Gryboś, Mu. Naushad, Volodymyr Kotsyubynsky, Maria Kowalska, Sylwia Kwiatkowska-Marks, Nazarii Danyliuk, Green synthesis, structure, cations distribution and bonding characteristics of superparamagnetic cobalt-zinc ferrites nanoparticles for Pb(II) adsorption and magnetic hyperthermia applications, Journal of Molecular Liquids, Volume 328, 2021, 115375, https://doi.org/10.1016/j.molliq.2021.115375. *(SCOPUS; IF = 5.065; Q1)* **2020** 3. **Tetiana Tatarchuk**, Alexander Shyichuk, Ilona Trawczyńska, Ivan Yaremiy, Antoni T. Pędziwiatr, Piotr Kurzydło, Bogdan F. Bogacz, Renata Gargula, Spinel cobalt(II) ferrite-chromites as catalysts for H2O2 decomposition: Synthesis, morphology, cation distribution and antistructure model of active centers formation, Ceramics International, Volume 46, Issue 17, 2020, Pages 27517-27530, https://doi.org/10.1016/j.ceramint.2020.07.243. *(SCOPUS; IF = 3.45; Q1)* 4. **Tetiana Tatarchuk**, Mariana Myslin, Ivan Mironyuk, Mohamed Bououdina, Antoni T. Pędziwiatr, Renata Gargula, Bogdan F. Bogacz, Piotr Kurzydło, Synthesis, morphology, crystallite size and adsorption properties of nanostructured Mg–Zn ferrites with enhanced porous structure, Journal of Alloys and Compounds, Volume 819, 2020, 152945, https://doi.org/10.1016/j.jallcom.2019.152945. *(SCOPUS; IF = 4.175; Q1)*

					5. **Tetiana Tatarchuk**, Ivan Mironyuk, Volodymyr Kotsyubynsky, Alexander Shyichuk, Mariana Myslin, Volodymyra Boychuk, Structure, morphology and adsorption properties of titania shell immobilized onto cobalt ferrite nanoparticle core, Journal of Molecular Liquids, Volume 297, 2020, 111757, https://doi.org/10.1016/j.molliq.2019.111757. *(SCOPUS; IF = 4.561; Q1)* 6. **Tetiana Tatarchuk**, Mu. Naushad, Jolanta Tomaszewska, Przemysław Kosobucki, Mariana Myslin, Hanna Vasylyeva, Piotr Ścigalski, Adsorption of Sr(II) ions and salicylic acid onto magnetic magnesium-zinc ferrites: isotherms and kinetic studies, Environmental Science and Pollution Research (2020), https://doi.org/10.1007/s11356-020-09043-1 *(SCOPUS; IF = 3.208; Q1)* 7. P. Tiwari, S. N. Kane, U. P. Deshpande, **Tetiana Tatarchuk**, F. Mazaleyrat & B. Rachiy (2020) Cr content-dependent modification of structural, magnetic properties and bandgap in green synthesized Co–Cr nano-ferrites, Molecular Crystals and Liquid Crystals, 699:1, 39-50, DOI: 10.1080/15421406.2020.1732537 **2019** 8. P. Tiwari, R. Verma, S. N. Kane, **Tetiana Tatarchuk**, F. Mazaleyrat, Effect of Zn addition On Structural, Magnetic Properties and Anti-structural Modeling of magnesium-nickel nano ferrites, Materials Chemistry and Physics 229 (2019) 78–86, https://doi.org/10.1016/j.matchemphys.2019.02.030 *(SCOPUS, IF=2.21; Q2)* 9. **T. Tatarchuk**, N. Paliychuk, R. B. Bitra, A. Shyichuk, Mu. Naushad, I. Mironyuk, D. Ziolkovska, Adsorptive removal of toxic Methylene blue and Acid Orange 7 dyes from aqueous medium using cobalt-zinc ferrite nanoadsorbents, Desalination and Water Treatment 150 (2019) 374–385, https://doi.org/10.5004/dwt.2019.23751 *(SCOPUS, IF=1.38; Q3)* 10. S. Raghuvanshi, P. Tiwari, S.N. Kane, D.K. Avasthi, F. Mazaleyrat, **Tetiana Tatarchuk**, Ivan Mironyuk, Dual control on structure and magnetic properties of Mg ferrite: Role of swift heavy ion irradiation, Journal of Magnetism and Magnetic Materials, Volume 471, 2019, Pages 521-528, https://doi.org/10.1016/j.jmmm.2018.10.004. *(SCOPUS, IF=3.046; Q2)*

					11. A. Abu El-Fadl, A.M. Hassan, M.H. Mahmoud, **Tetiana Tatarchuk**, I.P. Yaremiy, A.M. Gismelssed, M.A. Ahmed, Synthesis and magnetic properties of spinel Zn1−xNixFe2O4 ($0.0 \leq x \leq 1.0$) nanoparticles synthesized by microwave combustion method, Journal of Magnetism and Magnetic Materials, Volume 471, 2019, Pages 192-199, https://doi.org/10.1016/j.jmmm.2018.09.074. *(SCOPUS, IF=3.046; Q2)* 12. Mariia Liaskovska, **Tetiana Tatarchuk**, Mohamed Bououdina, Ivan Mironyuk, Green Synthesis of Magnetic Spinel Nanoparticles, In: Fesenko O., Yatsenko L. (eds) Nanophotonics, Nanooptics, Nanobiotechnology, and Their Applications. NANO 2018. Springer Proceedings in Physics, vol 222. Springer, Cham, https://doi.org/10.1007/978-3-030-17755-3_25 *(SCOPUS)* 13. P. Tiwari, S. N. Kane, R. Verma, **T. Tatarchuk**, F. Mazaleyrat, Influence of Mg Content on Structural and Magnetic Properties of Green-Synthesized $Li_{0.5-0.5x}Mg_xFe_{2.5-0.5x}O_4$ ($0.0 \leq x \leq 0.8$) Nanoferrites, In: Fesenko O., Yatsenko L. (eds) Nanophotonics, Nanooptics, Nanobiotechnology, and Their Applications. NANO 2018. Springer Proceedings in Physics, vol 222. Springer, Cham, https://doi.org/10.1007/978-3-030-17755-3_29 *(SCOPUS).* 14. **T. Tatarchuk**, N. Paliychuk, M. Pacia, W. Kaspera, W. Macyk, A. Kotarba, B. F. Bogacz, A. T. Pędziwiatr, I. Mironyuk, R. Gargula, P. Kurzydło, A. Shyichuk, Structure–redox reactivity relationships in Co1−xZnxFe2O4: the role of stoichiometry, New J. Chem. 43 (2019) 3038-3049, https://doi.org/10.1039/C8NJ05329D *(SCOPUS, IF=3.24; Q2)* **2018** 15. Irina Starko, **Tetiana Tatarchuk**, Mohamed Bououdina (2018) La-doped $Ni_{0.5}Co_{0.5}Fe_2O_4$ nanoparticles: effect of cobalt precursors on structure and morphology, Molecular Crystals and Liquid Crystals, 674:1, 110-119, https://doi.org/10.1080/15421406.2019.1578517 *(SCOPUS, IF = 0.67, Q3)* 16. R. Verma, S. N. Kane, P. Tiwari, S. S. Modak, **T. Tatarchuk**, F. Mazaleyrat (2018) 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, Molecular Crystals and Liquid Crystals, 674:1, 130-141, https://doi.org/10.1080/15421406.2019.1578519 *(SCOPUS, IF = 0.67, Q3)*

					17. **Tetiana Tatarchuk**, Maria Liaskovska, Volodymyr Kotsyubynsky, Mohamed Bououdina, Green synthesis of cobalt ferrite nanoparticles using cydonia oblonga extract: structural and mossbauer studies, Molecular Crystals and Liquid Crystals, 672:1 (2018) 54-66, https://doi.org/10.1080/15421406.2018.1542107 *(SCOPUS, IF = 0.67, Q3)* 18. S. Raghuvanshi, S. N. Kane, **T. R. Tatarchuk**, F. Mazaleyrat, Effect of Zn addition on structural, magnetic properties, antistructural modeling of $Co_{1-x}Zn_xFe_2O_4$ nano ferrite, AIP Conference Proceedings 1953, 030055 (2018), https://doi.org/10.1063/1.5032390 *(SCOPUS)* 19. R. Sharma, S. Raghuvanshi, M. Satalkar, S. N. Kane, **T. R. Tatarchuk**, F. Mazaleyrat, Effect of 120 MeV $^{28}Si^{9+}$ ion irradiation on structural and magnetic properties of $NiFe_2O_4$ and $Ni_{0.5}Zn_{0.5}Fe_2O_4$, AIP Conference Proceedings 1953, 030117 (2018); https://doi.org/10.1063/1.5032452 *(SCOPUS)* 20. S. N. Kane, S. Raghuvanshi, M. Satalkar, V. R. Reddy, U. P. Deshpande, **T.R. Tatarchuk**, F. Mazaleyrat, Synthesis, characterization and antistructure modeling of Ni nanoferrite, AIP Conference Proceedings 1953, 030089 (2018); https://doi.org/10.1063/1.5032424 *(SCOPUS)* 21. B. Rajesh Babu, **Tetiana Tatarchuk**, Elastic properties and antistructural modeling for Nickel-Zinc Ferrite-Aluminates (2018) Materials Chemistry and Physics 207: 534-541, https://doi.org/10.1016/j.matchemphys.2017.12.084 *(SCOPUS, IF=2.283, Q2)* 22. M.A. Ahmed, H.E. Hassan, M.M. Eltabey, K. Latka, **T.R. Tatarchuk**, Mössbauer spectroscopy of $Mg_xCu_{0.5-x}Zn_{0.5}Fe_2O_4$ (x = 0.0, 0.2 and 0.5) ferrites system irradiated by γ-rays, Physica B: Condensed Matter (2018) 530: 195-200, https://doi.org/10.1016/j.physb.2017.10.125 *(SCOPUS, IF=1.352, Q2)* 23. **T.R. Tatarchuk**, N.D. Paliychuk, M. Bououdina, B. Al-Najar, M. Pacia, W. Macyk, A. Shyichuk, Effect of cobalt substitution on structural, elastic, magnetic and optical properties of zinc ferrite nanoparticles, Journal of Alloys and Compounds (2018) 731: 1256-1266, https://doi.org/10.1016/j.jallcom.2017.10.103 *(SCOPUS, IF=4.175, Q1)* 24. Satalkar M., Kane S.N., **Tatarchuk T**., Araújo J.P. (2018) Ni Addition Induced Changes in Structural, Magnetic, and Cationic Distribution of $Zn_{0.75-x}Ni_xMg_{0.15}Cu_{0.1}Fe_2O_4$ Nano-ferrite. In:

					Fesenko O., Yatsenko L. (eds) Nanochemistry, Biotechnology, Nanomaterials, and Their Applications. NANO 2017. Springer, Cham, Springer Proceedings in Physics, Volume 214, 2018, Pages 357-375, https://doi.org/10.1007/978-3-319-92567-7_23 *(SCOPUS)* 25. B.F. Bogacz, R. Gargula, P. Kurzydło, A.T. Pedziwiatr, **T. Tatarchuk**, N. Paliychuk, Two-Level Model Description of Superparamagnetic Relaxation in Nanoferrites (Co,Zn)Fe_2O_4, Acta Physica Polonica A, Vol. 134 (2018), No. 5, 993-997, https://doi.org/10.12693/APhysPolA.134.993 *(SCOPUS, IF=0.75, Q3)* **2017** 26. **T. Tatarchuk**, M. Bououdina, W. Macyk, O. Shyichuk, N. Paliychuk, I. Yaremiy, B. Al-Najar, M. Pacia. Structural, Optical, and Magnetic Properties of Zn-Doped CoFe2O4 Nanoparticles. Nanoscale Research Letters 2017; 12(1): 141-151. https://doi.org/10.1186/s11671-017-1899-x *(SCOPUS, IF=3.196, Q2)* 27. **T. Tatarchuk**, M. Bououdina, N. Paliychuk, I. Yaremiy, V. Moklyak. Structural characterization and antistructure modeling of cobalt-substituted zinc ferrites. Journal of Alloys and Compounds 2017; 694: 777-791. https://doi.org/10.1016/j.jallcom.2016.10.067 *(SCOPUS, IF=4.175, Q1)* 28. **Tatarchuk T.,** Bououdina M., Judith Vijaya J., John Kennedy L. (2017) Spinel Ferrite Nanoparticles: Synthesis, Crystal Structure, Properties, and Perspective Applications. In: Fesenko O., Yatsenko L. (eds) Nanophysics, Nanomaterials, Interface Studies, and Applications. Springer Proceedings in Physics, vol 195. Springer, Cham, pp.305-325, https://doi.org/10.1007/978-3-319-56422-7_22