

# Taras Kavetskyy

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

1,652  
citations

361413

20  
h-index

330143

37  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1717  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complete ablation of tumors using synchronous chemoradiation with bimetallic theranostic nanoparticles. <i>Bioactive Materials</i> , 2022, 7, 74-84.	15.6	41
2	Long-range effect in ion-implanted polymers. <i>Vacuum</i> , 2022, 200, 111038.	3.5	2
3	Metronidazole conjugated bismuth sulfide nanoparticles for enhanced X-ray radiation therapy. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 71, 103336.	3.0	4
4	New micro/nanocomposite with peroxidase-like activity in construction of oxidases-based amperometric biosensors for ethanol and glucose analysis. <i>Analytica Chimica Acta</i> , 2021, 1143, 201-209.	5.4	15
5	Iron oxide and gold bimetallic radiosensitizers for synchronous tumor chemoradiation therapy in 4T1 breast cancer murine model. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4510-4522.	5.8	22
6	Metal-free nanostructured catalysts: sustainable driving forces for organic transformations. <i>Green Chemistry</i> , 2021, 23, 6223-6272.	9.0	32
7	CRISPR Systems for COVID-19 Diagnosis. <i>ACS Sensors</i> , 2021, 6, 1430-1445.	7.8	100
8	Structural and free volume characterization of sol-gel organic-inorganic hybrids, obtained by co-condensation of two ureasilicate stoichiometric precursors. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50615.	2.6	5
9	Nanotechnology against the novel coronavirus (severe acute respiratory syndrome coronavirus-2): diagnosis, treatment, therapy and future perspectives. <i>Nanomedicine</i> , 2021, 16, 497-516.	3.3	61
10	The Potential Application of Magnetic Nanoparticles for Liver Fibrosis Theranostics. <i>Frontiers in Chemistry</i> , 2021, 9, 674786.	3.6	22
11	Sustainable design and novel synthesis of highly recyclable magnetic carbon containing aromatic sulfonic acid: Fe <sub>3</sub> O <sub>4</sub> @C/Ph-SO <sub>3</sub> H as green solid acid promoted regioselective synthesis of tetrazoloquinazolines. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6346.	3.5	11
12	Natural and Synthetic Bioinks for 3D Bioprinting. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000097.	3.6	60
13	Magneto-immunoassay of cancer biomarkers: Recent progress and challenges in biomedical analysis. <i>Microchemical Journal</i> , 2021, 167, 106320.	4.5	11
14	Global, regional, and national burden of bone fractures in 204 countries and territories, 1990-2019: a systematic analysis from the Global Burden of Disease Study 2019. <i>The Lancet Healthy Longevity</i> , 2021, 2, e580-e592.	4.6	277
15	Structural order in (As <sub>2</sub> S <sub>3</sub> ) (GeS <sub>2</sub> ) <sub>1-x</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , 2021, 572, 121075.	3.1	4
16	Recent trends in enzyme engineering aiming to improve bioelectrocatalysis proceeding with direct electron transfer. <i>Current Opinion in Electrochemistry</i> , 2021, 31, 100856.	4.8	8
17	Study of Endogenous Paramagnetic Centers in Biological Systems from Different Areas. <i>Concepts in Magnetic Resonance Part B</i> , 2021, 2021, 1-5.	0.7	1
18	Microporous carbon fibers as electroconductive immobilization matrixes: Effect of their structure on operational parameters of laccase-based amperometric biosensor. <i>Materials Science and Engineering C</i> , 2020, 109, 110570.	7.3	16

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19	Estimating global injuries morbidity and mortality: methods and data used in the Global Burden of Disease 2017 study. <i>Injury Prevention</i> , 2020, 26, i125-i153.	2.4	44
20	Global injury morbidity and mortality from 1990 to 2017: results from the Global Burden of Disease Study 2017. <i>Injury Prevention</i> , 2020, 26, i96-i114.	2.4	103
21	The global, regional, and national burden of gastro-oesophageal reflux disease in 195 countries and territories, 1990â€“2017: a systematic analysis for the Global Burden of Disease Study 2017. <i>The Lancet Gastroenterology and Hepatology</i> , 2020, 5, 561-581.	8.1	69
22	Cell junction proteins: Crossing the glomerular filtration barrier in diabetic nephropathy. <i>International Journal of Biological Macromolecules</i> , 2020, 148, 475-482.	7.5	48
23	Effects of quercetin loaded nanostructured lipid carriers on the paraquat-induced toxicity in human lymphocytes. <i>Pesticide Biochemistry and Physiology</i> , 2020, 167, 104586.	3.6	85
24	Monitoring of drug resistance towards reducing the toxicity of pharmaceutical compounds: Past, present and future. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 186, 113265.	2.8	13
25	Curbed of molybdenum oxido-diperoxido complex on ionic liquid body of mesoporous Bipy-PMO-IL as a promising catalyst for selective sulfide oxidation. <i>Journal of Molecular Liquids</i> , 2020, 312, 113388.	4.9	23
26	Controlling the Network Properties of Polymer Matrices for Improvement of Amperometric Enzyme Biosensors: Contribution of Positron Annihilation. <i>Acta Physica Polonica A</i> , 2020, 137, 246-249.	0.5	2
27	Novel Photocross-Linked Polymers for Construction of Laccase-Based Amperometric Biosensors. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2020, , 303-310.	0.3	0
28	Polymer Lattice and Track Nanostructures to Create Novel Biosensors. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2020, , 267-273.	0.5	0
29	Use of Magnetic Susceptibility Measurement for Analysis of Self-Organized Magnetic Nanoparticles in Biological Systems. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2020, , 215-221.	0.3	1
30	Design of Mesoscopic Ordered Titania and Silica Hybrid Sol-Gel Films as Planar Waveguide. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2020, , 131-137.	0.3	0
31	Stoichiometric deviations in bond distances in the mixed As <sub>2</sub> S <sub>3</sub> -As <sub>2</sub> Se <sub>3</sub> system: Raman spectroscopy and EXAFS studies. <i>Journal of Non-Crystalline Solids</i> , 2019, 521, 119533.	3.1	6
32	Enhanced ~1.8â€“m photoluminescence under blue light excitation in Tm Bi co-doped germanate glass and its temperature dependence. <i>Journal of Non-Crystalline Solids</i> , 2019, 525, 119645.	3.1	8
33	Improvement of amperometric laccase biosensor using enzyme-immobilized gold nanoparticles coupling with ureasil polymer as a host matrix. <i>Gold Bulletin</i> , 2019, 52, 79-85.	2.4	14
34	New approach to create a counting grid by ion-mask implantation for analysis of small biological objects. <i>Vacuum</i> , 2019, 165, 320-323.	3.5	1
35	Dependence of operational parameters of laccase-based biosensors on structure of photocross-linked polymers as holding matrixes. <i>European Polymer Journal</i> , 2019, 115, 391-398.	5.4	12
36	Formation of heavy clusters in ion-irradiated compounds. <i>Vacuum</i> , 2019, 164, 149-152.	3.5	4

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37	Ion-induced processes in polymer composite materials: Positron annihilation spectroscopy in combination with UV-Vis absorption and Raman spectroscopy. AIP Conference Proceedings, 2019, , .	0.4	1
38	D-lactate-selective amperometric biosensor based on the mitochondrial fraction of <i>Ogataea polymorpha</i> recombinant cells. Yeast, 2019, 36, 341-348.	1.7	3
39	The role of microRNAs and nanoparticles in ovarian cancer: a review. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 241-247.	2.8	36
40	An overview application of silver nanoparticles in inhibition of herpes simplex virus. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 263-267.	2.8	49
41	Magnetic carbon nanotubes: preparation, physical properties, and applications in biomedicine. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 1314-1330.	2.8	58
42	Biomedical applications of aluminium oxide nanoparticles. Micro and Nano Letters, 2018, 13, 1227-1231.	1.3	59
43	Role of dendrimers in advanced drug delivery and biomedical applications: a review. Experimental Oncology, 2018, 40, 178-183.	0.1	11
44	Synthesis and Evaluation of a Triblock Copolymer/ZnO Nanoparticles from Poly( $\mu$ -caprolactone) and Poly(Acrylic Acid) as a Potential Drug Delivery Carrier. Drug Research, 2017, 67, 228-238.	1.7	3
45	Laccase-containing ureasil-polymer composite as the sensing layer of an amperometric biosensor. Journal of Applied Polymer Science, 2017, 134, 45278.	2.6	14
46	Optical characterization of nanocomposite polymer formed by ion implantation of boron. Journal of Materials Science: Materials in Electronics, 2017, 28, 7115-7120.	2.2	4
47	High-dose boron and silver ion implantation into PMMA probed by slow positrons: Effects of carbonization and formation of metal nanoparticles. Journal of Physics: Conference Series, 2017, 791, 012028.	0.4	3
48	Network Properties of Ureasil-Based Polymer Matrixes for Construction of Amperometric Biosensors as Probed by PALS and Swelling Experiments. Acta Physica Polonica A, 2017, 132, 1515-1519.	0.5	4
49	Carbonization in boron-ion-implanted polymethylmethacrylate as revealed from Raman spectroscopy and electrical measurements. Spectroscopy Letters, 2016, 49, 5-10.	1.0	11
50	Optical properties of the synthesized ZnO with ion implanted silver nanoparticles. Technical Physics Letters, 2015, 41, 537-539.	0.7	1
51	Low-temperature positron annihilation study of B <sup>+</sup> -ion implanted PMMA. Low Temperature Physics, 2014, 40, 747-751.	0.6	4
52	On the application of methods of positron annihilation spectroscopy for studying radiation-stimulated processes in chalcogenide glassy semiconductors. Semiconductors, 2014, 48, 9-12.	0.5	6
53	Structural Defects and Positronium Formation in 40 keV B <sup>+</sup> -Implanted Polymethylmethacrylate. Journal of Physical Chemistry B, 2014, 118, 4194-4200.	2.6	20
54	Optical properties of chalcogenide glasses with ion-synthesized copper nanoparticles. Technical Physics Letters, 2013, 39, 1-4.	0.7	15

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55	Reply on the "critical comments on speculations with free-volume defects in ion-conducting Ag/AgI-As <sub>2</sub> S <sub>3</sub> glasses". Solid State Ionics, 2013, 233, 107-109.	2.7	3
56	The formation of periodic diffractive plasmonic nanostructures with implanted copper nanoparticles by local ion etching of silica glass. Technical Physics Letters, 2013, 39, 591-593.	0.7	3
57	Comparative Study of Optical Properties of Polarizing Oxide Glasses with Silver Nanorods and Chalcogenide Glasses with Copper Nanoparticles. Physics Procedia, 2013, 48, 191-195.	1.2	6
58	Synthesis of periodic plasmonic microstructures with copper nanoparticles in silica glass by low-energy ion implantation. Applied Physics A: Materials Science and Processing, 2013, 111, 261-264.	2.3	40
59	Structural modification of chalcogenide glasses by gamma-irradiation studied with DBAL technique. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2420-2423.	0.8	8
60	New organic-inorganic hybrid ureasil-based polymer and glass-polymer composites with ion-implanted silver nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2444-2447.	0.8	9
61	Structure of AgI-doped Ge-In-S glasses: Experiment, reverse Monte Carlo modelling, and density functional calculations. Journal of Solid State Chemistry, 2012, 192, 7-15.	2.9	18
62	Study of microindentation cracks in bismuth-doped arsenic selenide glasses. Journal of Non-Crystalline Solids, 2011, 357, 3117-3122.	3.1	7
63	On the structural-optical correlations in radiation-modified chalcogenide glasses. Journal of Physics: Conference Series, 2011, 289, 012007.	0.4	5
64	Impact of the sample thickness and <sup>137</sup> I-irradiation dose on the occurrence of radiation-induced optical effects in chalcogenide vitreous semiconductors of the Ge-Sb-S system. Semiconductors, 2011, 45, 499-502.	0.5	5
65	Free-volume defects and microstructure in ion-conducting Ag/AgI-As <sub>2</sub> S <sub>3</sub> glasses as revealed from positron annihilation and microhardness measurements. Solid State Ionics, 2011, 183, 16-19.	2.7	6
66	Structural study of (As <sub>2</sub> S <sub>3</sub> ) <sub>0.6</sub> (GeS <sub>2</sub> ) <sub>0.4</sub> glass. Journal of Non-Crystalline Solids, 2009, 355, 1801-1806.	3.1	3
67	Nanostructural Characterization Of Amorphous Chalcogenides By X-Ray Diffraction And Positron Annihilation Techniques. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 365-370.	0.3	1
68	Vibrational and structural properties of unmodified and radiation-modified chalcogenide glasses for advanced optical applications. , 2008, , .		7
69	Radiation-modified structure of Ge <sub>25</sub> Sb <sub>15</sub> S <sub>60</sub> and Ge <sub>35</sub> Sb <sub>5</sub> S <sub>60</sub> glasses. Journal of Chemical Physics, 2008, 128, 244514.	3.0	12
70	Void-species nanostructure of chalcogenide glasses studied with FSDP-related XRD. Journal of Physics and Chemistry of Solids, 2007, 68, 712-715.	4.0	14
71	Charged defects in chalcogenide vitreous semiconductors studied with combined Raman scattering and PALS methods. Radiation Measurements, 2007, 42, 712-714.	1.4	19
72	On the correlation between void-species structure of vitreous arsenic selenide studied with X-ray diffraction and positron annihilation techniques. Journal of Non-Crystalline Solids, 2006, 352, 700-703.	3.1	12

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73	Threshold restoration effects in $\hat{1}^3$ -irradiated chalcogenide glasses. Journal of Non-Crystalline Solids, 2005, 351, 993-997.	3.1	16
74	Interpretation of Radiation-Induced Phenomena in Chalcogenide Glasses of Ge $\hat{1}$ -Sb $\hat{1}$ -S System Using Free Volume and Covalent Chemical Bonds Concepts. Solid State Phenomena, 2003, 90-91, 241-246.	0.3	3
75	IR impurity absorption in Sb $2$ S $3$ $\hat{1}$ -GeS $2$ (Ge $2$ S $3$ ) chalcogenide glasses. Infrared Physics and Technology, 2000, 41, 41-45.	2.9	22
76	New Organic-Inorganic Hybrid Ureasil-Based Polymer Materials Studied by PALS and SEM Techniques. Materials Science Forum, 0, 733, 171-174.	0.3	6