

# Zoltán Varga

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,609  
citations

331670

21  
h-index

315739

38  
g-index

61  
all docs

61  
docs citations

61  
times ranked

3283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical Stability and Fibrinolytic Resistance of Clots Containing Fibrin, DNA, and Histones. <i>Journal of Biological Chemistry</i> , 2013, 288, 6946-6956.	3.4	216
2	Characterization of extracellular vesicles by IR spectroscopy: Fast and simple classification based on amide and C H stretching vibrations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 459-466.	2.6	120
3	Towards traceable size determination of extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2014, 3, .	12.2	104
4	Radiolabeling of Extracellular Vesicles with <sup>99m</sup> Tc for Quantitative <i>In Vivo</i> Imaging Studies. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2016, 31, 168-173.	1.0	86
5	Comparison of Generic Fluorescent Markers for Detection of Extracellular Vesicles by Flow Cytometry. <i>Clinical Chemistry</i> , 2018, 64, 680-689.	3.2	76
6	A systematic comparison of different techniques to determine the zeta potential of silica nanoparticles in biological medium. <i>Analytical Methods</i> , 2015, 7, 9835-9843.	2.7	64
7	Size Measurement of Extracellular Vesicles and Synthetic Liposomes: The Impact of the Hydration Shell and the Protein Corona. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111053.	5.0	64
8	An improved 96 well plate format lipid quantification assay for standardisation of experiments with extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1565263.	12.2	57
9	A comparison of techniques for size measurement of nanoparticles in cell culture medium. <i>Analytical Methods</i> , 2016, 8, 5272-5282.	2.7	52
10	Comprehensive upgrade of the high-resolution small-angle neutron scattering instrument KWS-3 at FRM II. <i>Journal of Applied Crystallography</i> , 2011, 44, 337-342.	4.5	46
11	Neutralisation of the anti-coagulant effects of heparin by histones in blood plasma and purified systems. <i>Thrombosis and Haemostasis</i> , 2016, 115, 591-599.	3.4	43
12	Electrically Tunable Color by Using Mixtures of Bent-Core and Rod-Shaped Molecules. <i>Advanced Materials</i> , 2008, 20, 3138-3142.	21.0	42
13	Preparation, purification, and characterization of aminopropyl-functionalized silica sol. <i>Journal of Colloid and Interface Science</i> , 2013, 390, 34-40.	9.4	42
14	ASAXS study of CaF <sub>2</sub> nanoparticles embedded in a silicate glass matrix. <i>Journal of Applied Crystallography</i> , 2014, 47, 60-66.	4.5	35
15	CREDO: a new general-purpose laboratory instrument for small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2014, 47, 1749-1754.	4.5	35
16	A Closer Look at the Structure of Sterically Stabilized Liposomes: A Small-Angle X-ray Scattering Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6850-6854.	2.6	27
17	Size Determination of a Liposomal Drug by Small-Angle X-ray Scattering Using Continuous Contrast Variation. <i>Langmuir</i> , 2016, 32, 772-778.	3.5	27
18	Direct immobilization of manganese chelates on silica nanospheres for MRI applications. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 298-305.	9.4	24

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19	Detection and phenotyping of extracellular vesicles by size exclusion chromatography coupled with on-line fluorescence detection. <i>Scientific Reports</i> , 2019, 9, 19868.	3.3	24
20	Reagent-free total protein quantification of intact extracellular vesicles by attenuated total reflection Fourier transform infrared (ATR-FTIR) spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4619-4628.	3.7	24
21	Reference materials and representative test materials to develop nanoparticle characterization methods: the NanoChOp project case. <i>Frontiers in Chemistry</i> , 2015, 3, 56.	3.6	23
22	Extracellular vesicle release and uptake by the liver under normo- and hyperlipidemia. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 7589-7604.	5.4	22
23	Effect of pH on the conformation of bovine serum albumin - gold bioconjugates. <i>Journal of Molecular Liquids</i> , 2020, 309, 113065.	4.9	20
24	Biological Systems as Nanoreactors: Anomalous Small-Angle Scattering Study of the CdS Nanoparticle Formation in Multilamellar Vesicles. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1911-1915.	2.6	19
25	Nanoconfined Crosslinked Poly(ionic liquid)s with Unprecedented Selective Swelling Properties Obtained by Alkylation in Nanophase-Separated Poly(1-vinylimidazole)-l-poly(tetrahydrofuran) Conetworks. <i>Polymers</i> , 2020, 12, 2292.	4.5	17
26	Radiolabeling and Quantitative In Vivo SPECT/CT Imaging Study of Liposomes Using the Novel Iminothiolane- <sup>99m</sup> Tc-Tricarbonyl Complex. <i>Contrast Media and Molecular Imaging</i> , 2017, 2017, 1-8.	0.8	16
27	Storage conditions determine the characteristics of red blood cell derived extracellular vesicles. <i>Scientific Reports</i> , 2022, 12, 977.	3.3	16
28	Manipulating Active Structure and Function of Cationic Antimicrobial Peptide CM15 with the Polysulfonated Drug Suramin: A Step Closer to in Vivo Complexity. <i>ChemBioChem</i> , 2019, 20, 1578-1590.	2.6	15
29	Localization of Dibromophenol in DPPC/Water Liposomes Studied by Anomalous Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11029-11032.	2.6	14
30	Flow Alignment of Extracellular Vesicles: Structure and Orientation of Membrane-Associated Bio-macromolecules Studied with Polarized Light. <i>ChemBioChem</i> , 2018, 19, 545-551.	2.6	14
31	Thallium Labeled Citrate-Coated Prussian Blue Nanoparticles as Potential Imaging Agent. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-10.	0.8	14
32	Standardized procedure to measure the size distribution of extracellular vesicles together with other particles in biofluids with microfluidic resistive pulse sensing. <i>PLoS ONE</i> , 2021, 16, e0249603.	2.5	14
33	Osmotic shrinkage of sterically stabilized liposomes as revealed by time-resolved small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2014, 47, 35-40.	4.5	13
34	Hyaluronic acid decreases the mechanical stability, but increases the lytic resistance of fibrin matrices. <i>Matrix Biology</i> , 2017, 63, 55-68.	3.6	13
35	Nanoerythrocytes tailoring: Lipid induced protein scaffolding in ghost membrane derived vesicles. <i>Materials Science and Engineering C</i> , 2020, 109, 110428.	7.3	13
36	Structural Description of the Nickel Part of a Raney-Type Catalyst by Using Anomalous Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4427-4429.	3.1	12

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37	Total synthesis of isotopically enriched Si-29 silica NPs as potential spikes for isotope dilution quantification of natural silica NPs. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 161-165.	9.4	12
38	Interaction of dequalinium chloride with phosphatidylcholine bilayers: A biophysical study with consequences on the development of lipid-based mitochondrial nanomedicines. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 704-715.	9.4	12
39	Particle Size Distribution of Bimodal Silica Nanoparticles: A Comparison of Different Measurement Techniques. <i>Materials</i> , 2020, 13, 3101.	2.9	11
40	Anionic food color tartrazine enhances antibacterial efficacy of histatin-derived peptide DHVAR4 by fine-tuning its membrane activity. <i>Quarterly Reviews of Biophysics</i> , 2020, 53, e5.	5.7	11
41	Membrane Active Peptides Remove Surface Adsorbed Protein Corona From Extracellular Vesicles of Red Blood Cells. <i>Frontiers in Chemistry</i> , 2020, 8, 703.	3.6	10
42	Development and In Vivo Application of a Water-Soluble Anticancer Copper Ionophore System Using a Temperature-Sensitive Liposome Formulation. <i>Pharmaceutics</i> , 2020, 12, 466.	4.5	10
43	Vesicles as reactors of nanoparticles: an anomalous small-angle X-ray scattering study of the domains rich in copper ions. <i>Journal of Applied Crystallography</i> , 2007, 40, s259-s263.	4.5	9
44	Size- and charge-dependent modulation of the lytic susceptibility and mechanical stability of fibrin-chistone clots by heparin and polyphosphate variants. <i>Journal of Thrombosis and Haemostasis</i> , 2021, 19, 1307-1318.	3.8	9
45	Small-angle X-ray scattering experiments and computer simulations to characterise anisotropy of activated carbons prepared from wood. <i>Carbon</i> , 2011, 49, 3958-3971.	10.3	8
46	Biorelevant polyanions stabilize fibrin against mechanical and proteolytic decomposition: Effects of polymer size and electric charge. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103459.	3.1	8
47	Role of oligo(malic acid) on the formation of unilamellar vesicles. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 782-789.	9.4	6
48	Fluorescent, Prussian Blue-Based Biocompatible Nanoparticle System for Multimodal Imaging Contrast. <i>Nanomaterials</i> , 2020, 10, 1732.	4.1	6
49	The Janus Facet of Nanomaterials. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	5
50	Electromagnetic Piezoelectric Acoustic Sensor Detection of Extracellular Vesicles through Interaction with Detached Vesicle Proteins. <i>Biosensors</i> , 2020, 10, 173.	4.7	5
51	Localization of dihalogenated phenols in vesicle systems determined by contrast variation X-ray scattering. <i>Journal of Applied Crystallography</i> , 2007, 40, s205-s208.	4.5	4
52	Unbinding Transition in Lipid Multibilayers Induced by Copper(II) Ions. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8430-8433.	2.6	4
53	Synthesis of Porous Hollow Organosilica Particles with Tunable Shell Thickness. <i>Nanomaterials</i> , 2022, 12, 1172.	4.1	4
54	Estimating the rotation rate in the vacuolar proton-ATPase in native yeast vacuolar membranes. <i>European Biophysics Journal</i> , 2013, 42, 147-158.	2.2	3

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55	Thiolated cationic poly(aspartamides) with side group dependent gelation properties for the delivery of anionic polyelectrolytes. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5946-5957.	5.8	3
56	Development of <sup>77</sup> Ge/ <sup>77</sup> As parent-daughter system for periodic removal of <sup>77</sup> As for environmental sanitation and biochemical purposes. <i>Radiochimica Acta</i> , 2015, 103, 871-877.	1.2	2
57	Optimization of the reduction of <sup>74</sup> As(V) to <sup>74</sup> As(III) and of the labelling of dithiol dihydrolipoic acid. <i>Applied Radiation and Isotopes</i> , 2019, 149, 75-82.	1.5	1
58	Membrane active Janus-oligomers of $\hat{I}^2<sup>3</sup>$ -peptides. <i>Chemical Science</i> , 2020, 11, 6868-6881.	7.4	1
59	Advancement of Fluorescent and Structural Properties of Bovine Serum Albumin-Gold Bioconjugates in Normal and Heavy Water with pH Conditioning and Ageing. <i>Nanomaterials</i> , 2022, 12, 390.	4.1	1
60	Amino Surface Modification and Fluorescent Labelling of Porous Hollow Organosilica Particles: Optimization and Characterization. <i>Materials</i> , 2022, 15, 2696.	2.9	1
61	The 3M Concept: Biomedical Translational Imaging from Molecules to Mouse to Man. <i>The EuroBiotech Journal</i> , 2021, 5, 155-160.	1.0	0