

# Zoltan Horvolgyi

## List of Publications by Year in descending order

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49  
papers

1,051  
citations

361045

20  
h-index

433756

31  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1031  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monoparticulate Layers of Silanized Glass Spheres at the Water–Air Interface: Particle–Particle and Particle–Subphase Interactions. <i>Langmuir</i> , 1996, 12, 997-1004.	1.6	110
2	Self-division of giant vesicles driven by an internal enzymatic reaction. <i>Chemical Science</i> , 2020, 11, 3228-3235.	3.7	63
3	Spreading of hydrophobic silica beads at water–air interfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1993, 71, 327-335.	2.3	53
4	Surface free energy of natural and surface-modified tropical and European wood species. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 687-713.	1.4	53
5	Eco-friendly indigo carmine-loaded chitosan coatings for improved anti-corrosion protection of zinc substrates. <i>Carbohydrate Polymers</i> , 2019, 215, 63-72.	5.1	47
6	Wetting behaviour of silanized glass microspheres at water-air interfaces: a Wilhelmy film balance study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 156, 501-507.	2.3	45
7	Eliminating Surface Pressure Gradient Effects in Contact Angle Determination of Nano- and Microparticles Using a Film Balance. <i>Langmuir</i> , 1998, 14, 6501-6504.	1.6	44
8	Contact angle determination of nanoparticles: film balance and scanning angle reflectometry studies. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6359.	1.3	43
9	Compression of Langmuir Films Composed of Fine Particles: Collapse Mechanism and Wettability. <i>Langmuir</i> , 2006, 22, 6944-6950.	1.6	41
10	Nanostructured silica Langmuir–Blodgett films with antireflective properties prepared on glass substrates. <i>Thin Solid Films</i> , 2005, 484, 310-317.	0.8	36
11	Ellipsometry of Silica Nanoparticulate Langmuir–Blodgett Films for the Verification of the Validity of Effective Medium Approximations. <i>Langmuir</i> , 2006, 22, 8416-8423.	1.6	36
12	Mesoporous silica coatings with improved corrosion protection properties. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 102-113.	2.2	34
13	Water-repellent acylated and silylated wood samples and their surface analytical characterization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 319, 204-212.	2.3	30
14	Langmuir–Blodgett films composed of size-quantized ZnO nanoparticles: Fabrication and optical characterization. <i>Thin Solid Films</i> , 2006, 515, 2587-2595.	0.8	29
15	Langmuir and Langmuir–Blodgett Films of Bidisperse Silica Nanoparticles. <i>Langmuir</i> , 2010, 26, 2694-2699.	1.6	28
16	Experimental study of the aggregate structures formed in the boundary layer of water–air phases. <i>Colloids and Surfaces</i> , 1991, 60, 79-95.	0.9	24
17	Sol–gel-derived mesoporous SiO <sub>2</sub> /ZnO active coating and development of multifunctional ceramic membranes. <i>Separation and Purification Technology</i> , 2008, 59, 304-309.	3.9	23
18	Carbon nanosphere templates for the preparation of inverse opal titania photonic crystals by atomic layer deposition. <i>Applied Surface Science</i> , 2020, 504, 144443.	3.1	23

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19	Silylation of wood for potential protection against biodegradation. An ATR-FTIR, ESCA and contact angle study. <i>Polymers for Advanced Technologies</i> , 2003, 14, 790-795.	1.6	21
20	Wettability and spectroscopic characterization of silylated wood samples. <i>Polymers for Advanced Technologies</i> , 2006, 17, 932-939.	1.6	21
21	On the structure formation of hydrophobed particles in the boundary layer of water and octane phases. <i>Colloid and Polymer Science</i> , 1993, 271, 396-403.	1.0	16
22	Complex Langmuir-Blodgett Films of SiO <sub>2</sub> and ZnO Nanoparticles with Advantageous Optical and Photocatalytical Properties. <i>Langmuir</i> , 2008, 24, 12575-12580.	1.6	16
23	Silica sol "gel protective coatings against corrosion of zinc substrates. <i>Periodica Polytechnica: Chemical Engineering</i> , 2014, 58, 61-66.	0.5	16
24	Bilayered (silica-chitosan) coatings for studying dye release in aqueous media: The role of chitosan properties. <i>Carbohydrate Polymers</i> , 2016, 136, 137-145.	5.1	15
25	Robust Contact Angle Determination for Needle-in-Drop Type Measurements. <i>ACS Omega</i> , 2019, 4, 18465-18471.	1.6	15
26	Chitosan coatings ionically cross-linked with ammonium paratungstate as anticorrosive coatings for zinc. <i>European Polymer Journal</i> , 2019, 118, 205-212.	2.6	15
27	Structure formation and interaction of silanized glass beads at water-fluid interfaces: a redispersability study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 108, 147-157.	2.3	14
28	Comparison of aggregation of rodlike and spherical particles: A fractal analysis. <i>Journal of Chemical Physics</i> , 1997, 107, 7451-7458.	1.2	14
29	Modeling the Structure Formation of Particulate Langmuir Films: the Effect of Polydispersity. <i>Langmuir</i> , 2007, 23, 5445-5451.	1.6	14
30	Accumulation of 2-Acetylamino-5-mercapto-1,3,4-thiadiazole in chitosan coatings for improved anticorrosive effect on zinc. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 423-431.	3.6	13
31	Estimation of contact angle for hydrophobic silica nanoparticles in their hexagonally ordered layer. <i>Materials Chemistry and Physics</i> , 2013, 140, 602-609.	2.0	11
32	Influence of embedded inhibitors on the corrosion resistance of zinc coated with mesoporous silica layers. <i>Surfaces and Interfaces</i> , 2019, 15, 216-223.	1.5	11
33	Aggregation kinetics in two dimensions: Real experiments and computer simulations. <i>Journal of Chemical Physics</i> , 2001, 114, 520.	1.2	10
34	Experimental studies on the control of slug flow by interfacial forces in silylated glass capillaries. <i>Colloids and Surfaces</i> , 1991, 55, 257-270.	0.9	9
35	Stabilization of gas chromatographic stationary phases with nanosized particles. <i>Chromatographia</i> , 2001, 53, 69-75.	0.7	7
36	Durability of microporous hybrid silica coatings: Optical and wetting properties. <i>Thin Solid Films</i> , 2020, 699, 137914.	0.8	7

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37	Two-Dimensional Aggregation of Rod-Like Particles: A Model Investigation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2404-2414.	1.2	6
38	Obtaining surface tension from contact angle data by the individual representation approach. <i>Colloid and Polymer Science</i> , 2007, 285, 1009-1018.	1.0	6
39	Characterisation of Solid Supported Nanostructured Thin Films by Scanning Angle Reflectometry and UV-Vis Spectrometry. <i>Materials Science Forum</i> , 2007, 537-538, 329-336.	0.3	5
40	Ammonia-vapour-induced two-layer transformation of mesoporous silica coatings on various substrates. <i>Vacuum</i> , 2021, 192, 110415.	1.6	5
41	Weak flocculation of aqueous kaolin suspensions initiating by NaCMC with different molecular weights. <i>Macromolecular Symposia</i> , 2003, 202, 307-324.	0.4	4
42	Preparation and characterization of Thioflavin T doped silica nanoparticles. <i>Periodica Polytechnica: Chemical Engineering</i> , 2009, 53, 49.	0.5	3
43	Combined Langmuir-Blodgett and sol-gel coatings. <i>Thin Solid Films</i> , 2012, 520, 2537-2544.	0.8	3
44	Photoinduced processes of adsorbed and associated dye molecules in mesoporous titania coatings. <i>Dyes and Pigments</i> , 2019, 167, 109-119.	2.0	3
45	Effect of Silver Modification on the Photoactivity of Titania Coatings with Different Pore Structures. <i>Nanomaterials</i> , 2021, 11, 2240.	1.9	3
46	Plasma-assisted template removal and consolidation of silica coatings on polycarbonate. <i>Thin Solid Films</i> , 2021, 738, 138976.	0.8	3
47	Nanostructured antireflective bilayers: Optical design and preparation. <i>Materials Chemistry and Physics</i> , 2014, 145, 176-185.	2.0	1
48	Thin layer photocatalysts of TiO <sub>2</sub> -Ag composites. <i>Studia Universitatis Babes-Bolyai Chemia</i> , 2019, 64, 81-98.	0.1	1
49	Chemically modified chitosan coatings: wetting and electrochemical studies. <i>Studia Universitatis Babes-Bolyai Chemia</i> , 2020, 65, 63-79.	0.1	1