

# Andrs Szilgyi

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50  
papers

1,318  
citations

19  
h-index

35  
g-index

56  
ext. papers

1,520  
ext. citations

4.6  
avg, IF

4.41  
L-index

#	Paper	IF	Citations
50	Magnetic Field-Responsive Smart Polymer Composites. <i>Advances in Polymer Science</i> , <b>2007</b> , 137-189	1.3	290
49	Reversible disulphide formation in polymer networks: A versatile functional group from synthesis to applications. <i>European Polymer Journal</i> , <b>2013</b> , 49, 1268-1286	5.2	101
48	On-demand microfluidic control by micropatterned light irradiation of a photoresponsive hydrogel sheet. <i>Lab on A Chip</i> , <b>2009</b> , 9, 196-8	7.2	93
47	Rewritable Microrelief Formation on Photoresponsive Hydrogel Layers. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2730-2732	9.6	92
46	Reversible interactions in self-healing and shape memory hydrogels. <i>European Polymer Journal</i> , <b>2017</b> , 93, 642-669	5.2	54
45	Thiolated poly(aspartic acid) as potential in situ gelling, ocular mucoadhesive drug delivery system. <i>European Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 67, 1-11	5.1	54
44	Redox- and pH-responsive cysteamine-modified poly(aspartic acid) showing a reversible sol-gel transition. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 633-40	5.5	50
43	pH- and temperature-responsive poly(aspartic acid)-l-poly(N-isopropylacrylamide) conetwork hydrogel. <i>European Polymer Journal</i> , <b>2013</b> , 49, 2392-2403	5.2	45
42	Supermacroporous chemically cross-linked poly(aspartic acid) hydrogels. <i>Acta Biomaterialia</i> , <b>2015</b> , 22, 32-8	10.8	40
41	Phenylalanine Ammonia-Lyase-Catalyzed Deamination of an Acyclic Amino Acid: Enzyme Mechanistic Studies Aided by a Novel Microreactor Filled with Magnetic Nanoparticles. <i>ChemBioChem</i> , <b>2015</b> , 16, 2283-8	3.8	34
40	Electric and Magnetic Field-Structured Smart Composites. <i>Macromolecular Symposia</i> , <b>2005</b> , 227, 123-134	0.8	34
39	Bioimprinted lipases in PVA nanofibers as efficient immobilized biocatalysts. <i>Tetrahedron</i> , <b>2016</b> , 72, 7335-7342	3.0	30
38	Immobilization engineering [How to design advanced sol-gel systems for biocatalysis?]. <i>Green Chemistry</i> , <b>2017</b> , 19, 3927-3937	10	30
37	Smart gel-glass based on the responsive properties of polymer gels. <i>Polymers for Advanced Technologies</i> , <b>2001</b> , 12, 501-505	3.2	30
36	Reversible response of poly(aspartic acid) hydrogels to external redox and pH stimuli. <i>RSC Advances</i> , <b>2014</b> , 4, 8764	3.7	28
35	Temperature induced phase transition of interpenetrating polymer networks composed of poly(vinyl alcohol) and copolymers of N-isopropylacrylamide with acrylamide or 2-acrylamido-2-methylpropyl-sulfonic acid. <i>Polymer</i> , <b>2005</b> , 46, 10011-10016	3.9	28
34	Redox- and pH-Responsive Nanogels Based on Thiolated Poly(aspartic acid). <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 260-266	3.9	27

33	Electrically adjustable thermotropic windows based on polymer gels. <i>Polymers for Advanced Technologies</i> , <b>2003</b> , 14, 757-762	3.2	23
32	Poly(aspartic acid) with adjustable pH-dependent solubility. <i>Acta Biomaterialia</i> , <b>2017</b> , 49, 486-494	10.8	19
31	Mucoadhesive Cyclodextrin-Modified Thiolated Poly(aspartic acid) as a Potential Ophthalmic Drug Delivery System. <i>Polymers</i> , <b>2018</b> , 10,	4.5	17
30	Thermotropic Polymer Gels: Smart Gel Glass. <i>Macromolecular Symposia</i> , <b>2005</b> , 227, 357-366	0.8	17
29	Modular Synthesis of $\epsilon$ -Valerolactone-Based Ionic Liquids and Their Application as Alternative Media for Copper-Catalyzed Ullmann-type Coupling Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5097-5104	8.3	16
28	The effect of thiol content on the gelation and mucoadhesion of thiolated poly(aspartic acid). <i>Polymer International</i> , <b>2017</b> , 66, 1538-1545	3.3	15
27	Structure-biocompatibility and transfection activity relationships of cationic polyaspartamides with (dialkylamino)alkyl and alkyl or hydroxyalkyl side groups. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 517, 234-246	6.5	15
26	In situ oxidation-induced gelation of poly(aspartic acid) thiomers. <i>Reactive and Functional Polymers</i> , <b>2014</b> , 84, 29-36	4.6	15
25	Amino acid based polymer hydrogel with enzymatically degradable cross-links. <i>Reactive and Functional Polymers</i> , <b>2018</b> , 133, 21-28	4.6	14
24	Poly(aspartic acid) hydrogels showing reversible volume change upon redox stimulus. <i>European Polymer Journal</i> , <b>2018</b> , 105, 459-468	5.2	14
23	Preparation of pH-Responsive Poly(aspartic acid) Nanogels in Inverse Emulsion. <i>Periodica Polytechnica: Chemical Engineering</i> , <b>2017</b> , 61, 19	1.3	10
22	The resolution of acyclic P-stereogenic phosphine oxides via the formation of diastereomeric complexes: A case study on ethyl-(2-methylphenyl)-phenylphosphine oxide. <i>Chirality</i> , <b>2018</b> , 30, 509-522	2.1	10
21	Effect of side groups on the properties of cationic polyaspartamides. <i>European Polymer Journal</i> , <b>2017</b> , 93, 805-814	5.2	9
20	The effect of solder paste particle size on the thixotropic behaviour during stencil printing. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 262, 571-576	5.3	9
19	Comparative Study on the Collapse Transition of Poly(N-isopropylacrylamide) Gels and Magnetic Nanoparticles Loaded Poly(N-isopropylacrylamide) Gels. <i>Macromolecular Symposia</i> , <b>2006</b> , 239, 130-137	0.8	8
18	Investigating the thixotropic behaviour of Type 4 solder paste during stencil printing. <i>Soldering and Surface Mount Technology</i> , <b>2017</b> , 29, 10-14	1.4	7
17	Mucoadhesive interactions between synthetic polyaspartamides and porcine gastric mucin on the colloid size scale. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 194, 111219	6	7
16	The effect of the antioxidant on the properties of thiolated poly(aspartic acid) polymers in aqueous ocular formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2017</b> , 113, 178-187	5.7	5

15	In vitro testing of thiolated poly(aspartic acid) from ophthalmic formulation aspects. <i>Drug Development and Industrial Pharmacy</i> , <b>2016</b> , 42, 1241-6	3.6	5
14	Cationic Thiolated Poly(aspartamide) Polymer as a Potential Excipient for Artificial Tear Formulations. <i>Journal of Ophthalmology</i> , <b>2016</b> , 2016, 2647264	2	4
13	Fast dissolving nanofibrous matrices prepared by electrospinning of polyaspartamides. <i>European Polymer Journal</i> , <b>2020</b> , 130, 109624	5.2	3
12	Bisepoxide Cross-Linked Enzyme Aggregates as New Immobilized Biocatalysts for Selective Biotransformations. <i>ChemCatChem</i> , <b>2014</b> , 6, n/a-n/a	5.2	3
11	Liver-on-a-Chip-Magnetic Nanoparticle Bound Synthetic Metalloporphyrin-Catalyzed Biomimetic Oxidation of a Drug in a Magnechip Reactor. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	2
10	Binding Modes of a Phenylpyridinium Styryl Fluorescent Dye with Cucurbiturils. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2
9	Nanofibrous Formulation of Cyclodextrin Stabilized Lipases for Efficient Pancreatin Replacement Therapies. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	2
8	Fluorescence probing of binding sites on graphene oxide nanosheets with Oxazine 1 dye. <i>Applied Surface Science</i> , <b>2021</b> , 541, 148451	6.7	2
7	Electrospun Nanofibers for Entrapment of Biomolecules <b>2018</b> ,		2
6	Magnetic Nanoparticles with Dual Surface Functions-Efficient Carriers for Metalloporphyrin-Catalyzed Drug Metabolite Synthesis in Batch and Continuous-Flow Reactors. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	1
5	Side group ratio as a novel means to tune the hydrolytic degradation of thiolated and disulfide cross-linked polyaspartamides. <i>Polymer Degradation and Stability</i> , <b>2021</b> , 188, 109577	4.7	1
4	A robust mucin-containing poly(vinyl alcohol) hydrogel model for the in vitro characterization of mucoadhesion of solid dosage forms.. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2022</b> , 213, 112406	6	0
3	Entrapment of Phenylalanine Ammonia-Lyase in Nanofibrous Polylactic Acid Matrices by Emulsion Electrospinning. <i>Catalysts</i> , <b>2021</b> , 11, 1149	4	0
2	Characterization of Poly(N-isopropylacrylamide) and Magnetic Poly(N-isopropylacrylamide) Latexes <b>2008</b> , 194-199		
1	Preface for papers presented at AMSALS 2012. <i>Periodica Polytechnica: Chemical Engineering</i> , <b>2014</b> , 58, 47	1.3	