Andrs Szilgyi

List of Publications by Year in Descending Order

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	A robust mucin-containing poly(vinyl alcohol) hydrogel model for the in vitro characterization of mucoadhesion of solid dosage forms.. *Colloids and Surfaces B: Biointerfaces*, **2022**, 213, 112406	6	0
49	Nanofibrous Formulation of Cyclodextrin Stabilized Lipases for Efficient Pancreatin Replacement Therapies. *Pharmaceutics*, **2021**, 13,	6.4	2
48	Side group ratio as a novel means to tune the hydrolytic degradation of thiolated and disulfide cross-linked polyaspartamides. *Polymer Degradation and Stability*, **2021**, 188, 109577	4.7	1
47	Fluorescence probing of binding sites on graphene oxide nanosheets with Oxazine 1 dye. *Applied Surface Science*, **2021**, 541, 148451	6.7	2
46	Entrapment of Phenylalanine Ammonia-Lyase in Nanofibrous Polylactic Acid Matrices by Emulsion Electrospinning. *Catalysts*, **2021**, 11, 1149	4	0
45	Binding Modes of a Phenylpyridinium Styryl Fluorescent Dye with Cucurbiturils. *Molecules*, **2020**, 25,	4.8	2
44	Mucoadhesive interactions between synthetic polyaspartamides and porcine gastric mucin on the colloid size scale. *Colloids and Surfaces B: Biointerfaces*, **2020**, 194, 111219	6	7
43	Fast dissolving nanofibrous matrices prepared by electrospinning of polyaspartamides. *European Polymer Journal*, **2020**, 130, 109624	5.2	3
42	Magnetic Nanoparticles with Dual Surface Functions-Efficient Carriers for Metalloporphyrin-Catalyzed Drug Metabolite Synthesis in Batch and Continuous-Flow Reactors. *Nanomaterials*, **2020**, 10,	5.4	1
41	Liver-on-a-Chip-Magnetic Nanoparticle Bound Synthetic Metalloporphyrin-Catalyzed Biomimetic Oxidation of a Drug in a Magnechip Reactor. *Micromachines*, **2019**, 10,	3.3	2
40	Modular Synthesis of γ-Valerolactone-Based Ionic Liquids and Their Application as Alternative Media for Copper-Catalyzed Ullmann-type Coupling Reactions. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 5097-5104	8.3	16
39	The resolution of acyclic P-stereogenic phosphine oxides via the formation of diastereomeric complexes: A case study on ethyl-(2-methylphenyl)-phenylphosphine oxide. *Chirality*, **2018**, 30, 509-522	2.1	10
38	The effect of solder paste particle size on the thixotropic behaviour during stencil printing. *Journal of Materials Processing Technology*, **2018**, 262, 571-576	5.3	9
37	Mucoadhesive Cyclodextrin-Modified Thiolated Poly(aspartic acid) as a Potential Ophthalmic Drug Delivery System. *Polymers*, **2018**, 10,	4.5	17
36	Amino acid based polymer hydrogel with enzymatically degradable cross-links. *Reactive and Functional Polymers*, **2018**, 133, 21-28	4.6	14
35	Electrospun Nanofibers for Entrapment of Biomolecules **2018**,		2
34	Poly(aspartic acid) hydrogels showing reversible volume change upon redox stimulus. *European Polymer Journal*, **2018**, 105, 459-468	5.2	14

33	The effect of the antioxidant on the properties of thiolated poly(aspartic acid) polymers in aqueous ocular formulations. *European Journal of Pharmaceutics and Biopharmaceutics*, **2017**, 113, 178-187	5.7	5
32	Investigating the thixotropic behaviour of Type 4 solder paste during stencil printing. *Soldering and Surface Mount Technology*, **2017**, 29, 10-14	1.4	7
31	Effect of side groups on the properties of cationic polyaspartamides. *European Polymer Journal*, **2017**, 93, 805-814	5.2	9
30	Reversible interactions in self-healing and shape memory hydrogels. *European Polymer Journal*, **2017**, 93, 642-669	5.2	54
29	The effect of thiol content on the gelation and mucoadhesion of thiolated poly(aspartic acid). *Polymer International*, **2017**, 66, 1538-1545	3.3	15
28	Poly(aspartic acid) with adjustable pH-dependent solubility. *Acta Biomaterialia*, **2017**, 49, 486-494	10.8	19
27	Structure-biocompatibility and transfection activity relationships of cationic polyaspartamides with (dialkylamino)alkyl and alkyl or hydroxyalkyl side groups. *International Journal of Pharmaceutics*, **2017**, 517, 234-246	6.5	15
26	Preparation of pH-Responsive Poly(aspartic acid) Nanogels in Inverse Emulsion. *Periodica Polytechnica: Chemical Engineering*, **2017**, 61, 19	1.3	10
25	Immobilization engineering How to design advanced sol gel systems for biocatalysis?. *Green Chemistry*, **2017**, 19, 3927-3937	10	30
24	Bioimprinted lipases in PVA nanofibers as efficient immobilized biocatalysts. *Tetrahedron*, **2016**, 72, 7335-7342	2.4	30
23	Redox- and pH-Responsive Nanogels Based on Thiolated Poly(aspartic acid). *Macromolecular Materials and Engineering*, **2016**, 301, 260-266	3.9	27
22	In vitro testing of thiolated poly(aspartic acid) from ophthalmic formulation aspects. *Drug Development and Industrial Pharmacy*, **2016**, 42, 1241-6	3.6	5
21	Cationic Thiolated Poly(aspartamide) Polymer as a Potential Excipient for Artificial Tear Formulations. *Journal of Ophthalmology*, **2016**, 2016, 2647264	2	4
20	Supermacroporous chemically cross-linked poly(aspartic acid) hydrogels. *Acta Biomaterialia*, **2015**, 22, 32-8	10.8	40
19	Thiolated poly(aspartic acid) as potential in situ gelling, ocular mucoadhesive drug delivery system. *European Journal of Pharmaceutical Sciences*, **2015**, 67, 1-11	5.1	54
18	Phenylalanine Ammonia-Lyase-Catalyzed Deamination of an Acyclic Amino Acid: Enzyme Mechanistic Studies Aided by a Novel Microreactor Filled with Magnetic Nanoparticles. *ChemBioChem*, **2015**, 16, 2283-8	3.8	34
17	Bisepoxide Cross-Linked Enzyme Aggregates New Immobilized Biocatalysts for Selective Biotransformations. *ChemCatChem*, **2014**, 6, n/a-n/a	5.2	3
16	Reversible response of poly(aspartic acid) hydrogels to external redox and pH stimuli. *RSC Advances*, **2014**, 4, 8764	3.7	28

15	In situ oxidation-induced gelation of poly(aspartic acid) thiomers. *Reactive and Functional Polymers*, **2014**, 84, 29-36	4.6	15
14	Preface for papers presented at AMSALS 2012. *Periodica Polytechnica: Chemical Engineering*, **2014**, 58, 47	1.3	
13	pH- and temperature-responsive poly(aspartic acid)-l-poly(N-isopropylacrylamide) conetwork hydrogel. *European Polymer Journal*, **2013**, 49, 2392-2403	5.2	45
12	Redox- and pH-responsive cysteamine-modified poly(aspartic acid) showing a reversible sol-gel transition. *Macromolecular Bioscience*, **2013**, 13, 633-40	5.5	50
11	Reversible disulphide formation in polymer networks: A versatile functional group from synthesis to applications. *European Polymer Journal*, **2013**, 49, 1268-1286	5.2	101
10	On-demand microfluidic control by micropatterned light irradiation of a photoresponsive hydrogel sheet. *Lab on A Chip*, **2009**, 9, 196-8	7.2	93
9	Characterization of Poly(N-isopropylacrylamide) and Magnetic Poly(N-isopropylacrylamide) Latexes **2008**, 194-199		
8	Rewritable Microrelief Formation on Photoresponsive Hydrogel Layers. *Chemistry of Materials*, **2007**, 19, 2730-2732	9.6	92
7	Magnetic Field-Responsive Smart Polymer Composites. *Advances in Polymer Science*, **2007**, 137-189	1.3	290
6	Comparative Study on the Collapse Transition of Poly(N-isopropylacrylamide) Gels and Magnetic Nanoparticles Loaded Poly(N-isopropylacrylamide) Gels. *Macromolecular Symposia*, **2006**, 239, 130-137	0.8	8
5	Electric and Magnetic Field-Structured Smart Composites. *Macromolecular Symposia*, **2005**, 227, 123-134	0.8	34
4	Thermotropic Polymer Gels: Smart Gel Glass. *Macromolecular Symposia*, **2005**, 227, 357-366	0.8	17
3	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. *Polymer*, **2005**, 46, 10011-10016	3.9	28
2	Electrically adjustable thermotropic windows based on polymer gels. *Polymers for Advanced Technologies*, **2003**, 14, 757-762	3.2	23
1	Smart gel glass based on the responsive properties of polymer gels. *Polymers for Advanced Technologies*, **2001**, 12, 501-505	3.2	30