Benjmin Gyarmati

List of Publications by Year in Descending Order

39 papers	811 citations	15 h-index	27 g-index
45 ext. papers	957 ext. citations	4.8 avg, IF	4.2 L-index

#	Paper	IF	Citations
39	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
38	Nanofibrous Formulation of Cyclodextrin Stabilized Lipases for Efficient Pancreatin Replacement Therapies. *Pharmaceutics*, **2021**, 13,	6.4	2
37	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
36	Binding Modes of a Phenylpyridinium Styryl Fluorescent Dye with Cucurbiturils. *Molecules*, **2020**, 25,	4.8	2
35	Mucoadhesive interactions between synthetic polyaspartamides and porcine gastric mucin on the colloid size scale. *Colloids and Surfaces B: Biointerfaces*, **2020**, 194, 111219	6	7
34	Fast dissolving nanofibrous matrices prepared by electrospinning of polyaspartamides. *European Polymer Journal*, **2020**, 130, 109624	5.2	3
33	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
32	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
31	Composite beads of silica gel, alginate and poly(aspartic acid) for the immobilization of a lipase enzyme. *EXPRESS Polymer Letters*, **2019**, 13, 512-523	3.4	7
30	Modular Synthesis of δ-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
29	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
28	Mucoadhesive Cyclodextrin-Modified Thiolated Poly(aspartic acid) as a Potential Ophthalmic Drug Delivery System. *Polymers*, **2018**, 10,	4.5	17
27	Amino acid based polymer hydrogel with enzymatically degradable cross-links. *Reactive and Functional Polymers*, **2018**, 133, 21-28	4.6	14
26	Electrospun Nanofibers for Entrapment of Biomolecules **2018**,		2
25	Poly(aspartic acid) hydrogels showing reversible volume change upon redox stimulus. *European Polymer Journal*, **2018**, 105, 459-468	5.2	14
24	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
23	Investigating the thixotropic behaviour of Type 4 solder paste during stencil printing. *Soldering and Surface Mount Technology*, **2017**, 29, 10-14	1.4	7

22	Effect of side groups on the properties of cationic polyaspartamides. *European Polymer Journal*, **2017**, 93, 805-814	5.2	9
21	Reversible interactions in self-healing and shape memory hydrogels. *European Polymer Journal*, **2017**, 93, 642-669	5.2	54
20	The effect of thiol content on the gelation and mucoadhesion of thiolated poly(aspartic acid). *Polymer International*, **2017**, 66, 1538-1545	3.3	15
19	Poly(aspartic acid) with adjustable pH-dependent solubility. *Acta Biomaterialia*, **2017**, 49, 486-494	10.8	19
18	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
17	Preparation of pH-Responsive Poly(aspartic acid) Nanogels in Inverse Emulsion. *Periodica Polytechnica: Chemical Engineering*, **2017**, 61, 19	1.3	10
16	Interactions, structure and properties in PLA/plasticized starch blends. *Polymer*, **2016**, 103, 9-18	3.9	35
15	Redox- and pH-Responsive Nanogels Based on Thiolated Poly(aspartic acid). *Macromolecular Materials and Engineering*, **2016**, 301, 260-266	3.9	27
14	In vitro testing of thiolated poly(aspartic acid) from ophthalmic formulation aspects. *Drug Development and Industrial Pharmacy*, **2016**, 42, 1241-6	3.6	5
13	Cationic Thiolated Poly(aspartamide) Polymer as a Potential Excipient for Artificial Tear Formulations. *Journal of Ophthalmology*, **2016**, 2016, 2647264	2	4
12	Supermacroporous chemically cross-linked poly(aspartic acid) hydrogels. *Acta Biomaterialia*, **2015**, 22, 32-8	10.8	40
11	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
10	A colourimetric method for the determination of the degree of chemical cross-linking in aspartic acid-based polymer gels. *EXPRESS Polymer Letters*, **2015**, 9, 154-164	3.4	9
9	Reversible response of poly(aspartic acid) hydrogels to external redox and pH stimuli. *RSC Advances* , **2014**, 4, 8764	3.7	28
8	In situ oxidation-induced gelation of poly(aspartic acid) thiomers. *Reactive and Functional Polymers*, **2014**, 84, 29-36	4.6	15
7	The role of solubility and critical temperatures for the efficiency of sorbitol clarifiers in polypropylene. *RSC Advances*, **2014**, 4, 19737-19745	3.7	28
6	Preface for papers presented at AMSALS 2012. *Periodica Polytechnica: Chemical Engineering*, **2014**, 58, 47	1.3	
5	pH- and temperature-responsive poly(aspartic acid)-l-poly(N-isopropylacrylamide) conetwork hydrogel. *European Polymer Journal*, **2013**, 49, 2392-2403	5.2	45

4	Redox- and pH-responsive cysteamine-modified poly(aspartic acid) showing a reversible sol-gel transition. *Macromolecular Bioscience*, **2013**, 13, 633-40	5.5	50
3	Reversible disulphide formation in polymer networks: A versatile functional group from synthesis to applications. *European Polymer Journal*, **2013**, 49, 1268-1286	5.2	101
2	Comparative Evaluation of in Silico pKa Prediction Tools on the Gold Standard Dataset. *QSAR and Combinatorial Science*, **2009**, 28, 1148-1155		40
1	Synthesis and swelling properties of novel pH-sensitive poly(aspartic acid) gels. *Acta Biomaterialia*, **2008**, 4, 733-44	10.8	89