

Benjmin Gyarmati

List of Publications by Citations

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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 | Reversible disulphide formation in polymer networks: A versatile functional group from synthesis to applications. <i>European Polymer Journal</i> , 2013 , 49, 1268-1286 | 5.2 | 101 |
| 38 | Synthesis and swelling properties of novel pH-sensitive poly(aspartic acid) gels. <i>Acta Biomaterialia</i> , 2008 , 4, 733-44 | 10.8 | 89 |
| 37 | Reversible interactions in self-healing and shape memory hydrogels. <i>European Polymer Journal</i> , 2017 , 93, 642-669 | 5.2 | 54 |
| 36 | Thiolated poly(aspartic acid) as potential in situ gelling, ocular mucoadhesive drug delivery system. <i>European Journal of Pharmaceutical Sciences</i> , 2015 , 67, 1-11 | 5.1 | 54 |
| 35 | Redox- and pH-responsive cysteamine-modified poly(aspartic acid) showing a reversible sol-gel transition. <i>Macromolecular Bioscience</i> , 2013 , 13, 633-40 | 5.5 | 50 |
| 34 | pH- and temperature-responsive poly(aspartic acid)-l-poly(N-isopropylacrylamide) conetwork hydrogel. <i>European Polymer Journal</i> , 2013 , 49, 2392-2403 | 5.2 | 45 |
| 33 | Supermacroporous chemically cross-linked poly(aspartic acid) hydrogels. <i>Acta Biomaterialia</i> , 2015 , 22, 32-8 | 10.8 | 40 |
| 32 | Comparative Evaluation of in Silico pKa Prediction Tools on the Gold Standard Dataset. <i>QSAR and Combinatorial Science</i> , 2009 , 28, 1148-1155 | | 40 |
| 31 | Interactions, structure and properties in PLA/plasticized starch blends. <i>Polymer</i> , 2016 , 103, 9-18 | 3.9 | 35 |
| 30 | Reversible response of poly(aspartic acid) hydrogels to external redox and pH stimuli. <i>RSC Advances</i> , 2014 , 4, 8764 | 3.7 | 28 |
| 29 | The role of solubility and critical temperatures for the efficiency of sorbitol clarifiers in polypropylene. <i>RSC Advances</i> , 2014 , 4, 19737-19745 | 3.7 | 28 |
| 28 | Redox- and pH-Responsive Nanogels Based on Thiolated Poly(aspartic acid). <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 260-266 | 3.9 | 27 |
| 27 | Poly(aspartic acid) with adjustable pH-dependent solubility. <i>Acta Biomaterialia</i> , 2017 , 49, 486-494 | 10.8 | 19 |
| 26 | Mucoadhesive Cyclodextrin-Modified Thiolated Poly(aspartic acid) as a Potential Ophthalmic Drug Delivery System. <i>Polymers</i> , 2018 , 10, | 4.5 | 17 |
| 25 | Modular Synthesis of ϵ -Valerolactone-Based Ionic Liquids and Their Application as Alternative Media for Copper-Catalyzed Ullmann-type Coupling Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5097-5104 | 8.3 | 16 |
| 24 | The effect of thiol content on the gelation and mucoadhesion of thiolated poly(aspartic acid). <i>Polymer International</i> , 2017 , 66, 1538-1545 | 3.3 | 15 |
| 23 | Structure-biocompatibility and transfection activity relationships of cationic polyaspartamides with (dialkylamino)alkyl and alkyl or hydroxyalkyl side groups. <i>International Journal of Pharmaceutics</i> , 2017 , 517, 234-246 | 6.5 | 15 |

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| 22 | In situ oxidation-induced gelation of poly(aspartic acid) thiomers. <i>Reactive and Functional Polymers</i> , 2014 , 84, 29-36 | 4.6 | 15 |
| 21 | Amino acid based polymer hydrogel with enzymatically degradable cross-links. <i>Reactive and Functional Polymers</i> , 2018 , 133, 21-28 | 4.6 | 14 |
| 20 | Poly(aspartic acid) hydrogels showing reversible volume change upon redox stimulus. <i>European Polymer Journal</i> , 2018 , 105, 459-468 | 5.2 | 14 |
| 19 | Preparation of pH-Responsive Poly(aspartic acid) Nanogels in Inverse Emulsion. <i>Periodica Polytechnica: Chemical Engineering</i> , 2017 , 61, 19 | 1.3 | 10 |
| 18 | Effect of side groups on the properties of cationic polyaspartamides. <i>European Polymer Journal</i> , 2017 , 93, 805-814 | 5.2 | 9 |
| 17 | The effect of solder paste particle size on the thixotropic behaviour during stencil printing. <i>Journal of Materials Processing Technology</i> , 2018 , 262, 571-576 | 5.3 | 9 |
| 16 | A colourimetric method for the determination of the degree of chemical cross-linking in aspartic acid-based polymer gels. <i>EXPRESS Polymer Letters</i> , 2015 , 9, 154-164 | 3.4 | 9 |
| 15 | Investigating the thixotropic behaviour of Type 4 solder paste during stencil printing. <i>Soldering and Surface Mount Technology</i> , 2017 , 29, 10-14 | 1.4 | 7 |
| 14 | Composite beads of silica gel, alginate and poly(aspartic acid) for the immobilization of a lipase enzyme. <i>EXPRESS Polymer Letters</i> , 2019 , 13, 512-523 | 3.4 | 7 |
| 13 | Mucoadhesive interactions between synthetic polyaspartamides and porcine gastric mucin on the colloid size scale. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 194, 111219 | 6 | 7 |
| 12 | 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> , 2017 , 113, 178-187 | 5.7 | 5 |
| 11 | In vitro testing of thiolated poly(aspartic acid) from ophthalmic formulation aspects. <i>Drug Development and Industrial Pharmacy</i> , 2016 , 42, 1241-6 | 3.6 | 5 |
| 10 | Cationic Thiolated Poly(aspartamide) Polymer as a Potential Excipient for Artificial Tear Formulations. <i>Journal of Ophthalmology</i> , 2016 , 2016, 2647264 | 2 | 4 |
| 9 | Fast dissolving nanofibrous matrices prepared by electrospinning of polyaspartamides. <i>European Polymer Journal</i> , 2020 , 130, 109624 | 5.2 | 3 |
| 8 | Liver-on-a-Chip-Magnetic Nanoparticle Bound Synthetic Metalloporphyrin-Catalyzed Biomimetic Oxidation of a Drug in a Magnechip Reactor. <i>Micromachines</i> , 2019 , 10, | 3.3 | 2 |
| 7 | Binding Modes of a Phenylpyridinium Styryl Fluorescent Dye with Cucurbiturils. <i>Molecules</i> , 2020 , 25, | 4.8 | 2 |
| 6 | Nanofibrous Formulation of Cyclodextrin Stabilized Lipases for Efficient Pancreatin Replacement Therapies. <i>Pharmaceutics</i> , 2021 , 13, | 6.4 | 2 |
| 5 | Electrospun Nanofibers for Entrapment of Biomolecules 2018 , | | 2 |

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| 4 | Magnetic Nanoparticles with Dual Surface Functions-Efficient Carriers for Metalloporphyrin-Catalyzed Drug Metabolite Synthesis in Batch and Continuous-Flow Reactors. <i>Nanomaterials</i> , 2020 , 10, | 5-4 | 1 |
| 3 | 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> , 2021 , 188, 109577 | 4-7 | 1 |
| 2 | 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> , 2022 , 213, 112406 | 6 | 0 |
| 1 | Preface for papers presented at AMSALS 2012. <i>Periodica Polytechnica: Chemical Engineering</i> , 2014 , 58, 47 | 1-3 | |