Attila Farkas

List of Publications by Year in Descending Order

94 papers	1,647 citations	24 h-index	35 g-index
99 ext. papers	2,130 ext. citations	5 avg, IF	5.05 L-index

#	Paper	IF	Citations
94	Flux-Based Formulation Development-A Proof of Concept Study.. *AAPS Journal*, **2022**, 24, 22	3.7	2
93	Real-time amino acid and glucose monitoring system for the automatic control of nutrient feeding in CHO cell culture using raman spectroscopy.. *Biotechnology Journal*, **2022**, e2100395	5.6	1
92	Multi-Centered Solid-Phase Quasi-Intramolecular Redox Reactions of [(Chlorido)Pentaamminecobalt(III)] Permanganate: An Easy Route to Prepare Phase Pure CoMn2O4 Spinel. *Inorganics*, **2022**, 10, 18	2.9	1
91	Raman mapping-based non-destructive dissolution prediction of sustained-release tablets.. *Journal of Pharmaceutical and Biomedical Analysis*, **2022**, 212, 114661	3.5	3
90	3D Printed Strontium and Zinc Doped Hydroxyapatite Loaded PEEK for Craniomaxillofacial Implants.. *Polymers*, **2022**, 14,	4.5	1
89	UV/VIS imaging-based PAT tool for drug particle size inspection in intact tablets supported by pattern recognition neural networks.. *International Journal of Pharmaceutics*, **2022**, 121773	6.5	0
88	Nano-ZrO2@C, Nano-(ZrC, ZrO2)@C and Nano-ZrC@C Composites Prepared by Plasma-Assisted Carbonization of Zr-Loaded Iminodiacetate-Functionalized Styrene-Divinylbenzene Copolymers. *Inorganics*, **2022**, 10, 77	2.9	1
87	Development of fast-dissolving dosage forms of curcuminoids by electrospinning for potential tumor therapy application. *International Journal of Pharmaceutics*, **2021**, 121327	6.5	4
86	In-line particle size measurement based on image analysis in a fully continuous granule manufacturing line for rapid process understanding and development. *International Journal of Pharmaceutics*, **2021**, 121280	6.5	1
85	Powder filling of electrospun material in vials: A proof-of-concept study.. *International Journal of Pharmaceutics*, **2021**, 121413	6.5	1
84	Melt-extrusion 3D printing of resorbable levofloxacin-loaded meshes: Emerging strategy for urogynaecological applications. *Materials Science and Engineering C*, **2021**, 131, 112523	8.3	1
83	Real-time release testing of dissolution based on surrogate models developed by machine learning algorithms using NIR spectra, compression force and particle size distribution as input data. *International Journal of Pharmaceutics*, **2021**, 597, 120338	6.5	10
82	Solid-Phase Quasi-Intramolecular Redox Reaction of [Ag(NH)]MnO: An Easy Way to Prepare Pure AgMnO. *Inorganic Chemistry*, **2021**, 60, 3749-3760	5.1	7
81	Continuous blending monitored and feedback controlled by machine vision-based PAT tool. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 196, 113902	3.5	3
80	AgNO3?NH4NO3 an enigmatic double-salt type decomposition intermediate of diamminesilver(I) permanganate. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2021**, 647, 1166-1174	1.2	1
79	Facile isolation and analysis of sporopollenin exine from bee pollen. *Scientific Reports*, **2021**, 11, 9952	4.9	4
78	Additively manufactured BaTiO composite scaffolds: A novel strategy for load bearing bone tissue engineering applications. *Materials Science and Engineering C*, **2021**, 126, 112192	8.3	13

77	Sulfobutylether-beta-cyclodextrin-enabled antiviral remdesivir: Characterization of electrospun- and lyophilized formulations. *Carbohydrate Polymers*, **2021**, 264, 118011	10.3	12
76	Thermal decomposition and spectral characterization of di[carbonatotetraamminecobalt(III)] sulfate trihydrate and the nature of its thermal decomposition products. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 2907-2923	4.1	7
75	Deuteration and Vibrational Spectra of Dimethylammonium Paratungstate-B Hydrates. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2021**, 647, 593-598	1.3	5
74	Fluorescence probing of binding sites on graphene oxide nanosheets with Oxazine 1 dye. *Applied Surface Science*, **2021**, 541, 148451	6.7	2
73	3D printed composite materials for craniofacial implants: current concepts, challenges and future directions. *International Journal of Advanced Manufacturing Technology*, **2021**, 112, 635-653	3.2	11
72	Integrated twin-screw wet granulation, continuous vibrational fluid drying and milling: A fully continuous powder to granule line. *International Journal of Pharmaceutics*, **2021**, 594, 120126	6.5	9
71	Comparison of Amorphous Solid Dispersions of Spironolactone Prepared by Spray Drying and Electrospinning: The Influence of the Preparation Method on the Dissolution Properties. *Molecular Pharmaceutics*, **2021**, 18, 317-327	5.6	5
70	Next-generation surgical meshes for drug delivery and tissue engineering applications: materials, design and emerging manufacturing technologies. *Bio-Design and Manufacturing*, **2021**, 4, 278-310	4.7	9
69	(MeNH)[H-Dodecatungstate] polymorphs: dodecatungstate cages embedded in a variable dimethylammonium cation + water of crystallization matrix.. *RSC Advances*, **2021**, 11, 3713-3724	3.7	2
68	Combination of PAT and mechanistic modeling tools in a fully continuous powder to granule line: Rapid and deep process understanding. *Powder Technology*, **2021**, 388, 70-81	5.2	5
67	3D printed PEEK/HA composites for bone tissue engineering applications: Effect of material formulation on mechanical performance and bioactive potential. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 121, 104601	4.1	17
66	Continuous downstream processing of milled electrospun fibers to tablets monitored by near-infrared and Raman spectroscopy. *European Journal of Pharmaceutical Sciences*, **2021**, 164, 105907	5.1	5
65	Poly(caprolactone)-based subcutaneous implant for sustained delivery of levothyroxine. *International Journal of Pharmaceutics*, **2021**, 607, 121011	6.5	5
64	Development of drug loaded cardiovascular prosthesis for thrombosis prevention using 3D printing. *Materials Science and Engineering C*, **2021**, 129, 112375	8.3	8
63	Digital twin of low dosage continuous powder blending - Artificial neural networks and residence time distribution models. *European Journal of Pharmaceutics and Biopharmaceutics*, **2021**, 169, 64-77	5.7	1
62	Comparison of thermally and chemically reduced graphene oxides by thermal analysis and Raman spectroscopy. *Journal of Thermal Analysis and Calorimetry*, **2020**, 142, 331-337	4.1	22
61	A solid doxycycline HP-ECD formulation for reconstitution (i.v. bolus) prepared by scaled-up electrospinning. *International Journal of Pharmaceutics*, **2020**, 586, 119539	6.5	9
60	Frequency and waveform dependence of alternating current electrospinning and their uses for drug dissolution enhancement. *International Journal of Pharmaceutics*, **2020**, 586, 119593	6.5	7

59	Development of a Biodegradable Subcutaneous Implant for Prolonged Drug Delivery Using 3D Printing. *Pharmaceutics*, **2020**, 12,	6.4	59
58	Digital UV/VIS imaging: A rapid PAT tool for crushing strength, drug content and particle size distribution determination in tablets. *International Journal of Pharmaceutics*, **2020**, 578, 119174	6.5	14
57	3D Printing of Drug-Loaded Thermoplastic Polyurethane Meshes: A Potential Material for Soft Tissue Reinforcement in Vaginal Surgery. *Pharmaceutics*, **2020**, 12,	6.4	48
56	Videometric mass flow control: A new method for real-time measurement and feedback control of powder micro-feeding based on image analysis. *International Journal of Pharmaceutics*, **2020**, 580, 119223	6.5	9
55	End-to-end continuous manufacturing of conventional compressed tablets: From flow synthesis to tableting through integrated crystallization and filtration. *International Journal of Pharmaceutics*, **2020**, 581, 119297	6.5	25
54	Polymorphic Concentration Control for Crystallization Using Raman and Attenuated Total Reflectance Ultraviolet Visible Spectroscopy. *Crystal Growth and Design*, **2020**, 20, 73-86	3.5	6
53	Towards 3D Multi-Layer Scaffolds for Periodontal Tissue Engineering Applications: Addressing Manufacturing and Architectural Challenges. *Polymers*, **2020**, 12,	4.5	7
52	Raman-based dynamic feeding strategies using real-time glucose concentration monitoring system during adalimumab producing CHO cell cultivation. *Biotechnology Progress*, **2020**, 36, e3052	2.8	5
51	Poly(caprolactone)-Based Coatings on 3D-Printed Biodegradable Implants: A Novel Strategy to Prolong Delivery of Hydrophilic Drugs. *Molecular Pharmaceutics*, **2020**, 17, 3487-3500	5.6	26
50	Process Design of Continuous Powder Blending Using Residence Time Distribution and Feeding Models. *Pharmaceutics*, **2020**, 12,	6.4	8
49	Novel combination of non-invasive morphological and solid-state characterisation of drug-loaded core-shell electrospun fibres. *International Journal of Pharmaceutics*, **2020**, 587, 119706	6.5	10
48	The use of polymeric meshes for pelvic organ prolapse: Current concepts, challenges, and future perspectives. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 771-789	3.5	10
47	Fused Deposition Modeling as an Effective Tool for Anti-Infective Dialysis Catheter Fabrication. *ACS Biomaterials Science and Engineering*, **2019**, 5, 6300-6310	5.5	33
46	Application of artificial neural networks for Process Analytical Technology-based dissolution testing. *International Journal of Pharmaceutics*, **2019**, 567, 118464	6.5	23
45	Inline noninvasive Raman monitoring and feedback control of glucose concentration during ethanol fermentation. *Biotechnology Progress*, **2019**, 35, e2848	2.8	13
44	Multilayer nanoscale functionalization to treat disorders and enhance regeneration of bone tissue. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 19, 22-38	6	7
43	Corona alternating current electrospinning: A combined approach for increasing the productivity of electrospinning. *International Journal of Pharmaceutics*, **2019**, 561, 219-227	6.5	24
42	Continuous alternative to freeze drying: Manufacturing of cyclodextrin-based reconstitution powder from aqueous solution using scaled-up electrospinning. *Journal of Controlled Release*, **2019**, 298, 120-127	11.7	38

41	Thermal and spectroscopic studies on a double-salt-type pyridine–silver perchlorate complex having η1-O coordinated perchlorate ions. *Journal of Thermal Analysis and Calorimetry*, **2019**, 138, 1193-1205	4.1	7
40	Fast, Spectroscopy-Based Prediction of In Vitro Dissolution Profile of Extended Release Tablets Using Artificial Neural Networks. *Pharmaceutics*, **2019**, 11,	6.4	17
39	Electrospun amorphous solid dispersions of meloxicam: Influence of polymer type and downstream processing to orodispersible dosage forms. *International Journal of Pharmaceutics*, **2019**, 569, 118593	6.5	20
38	Scaled-Up Production and Tableting of Grindable Electrospun Fibers Containing a Protein-Type Drug. *Pharmaceutics*, **2019**, 11,	6.4	16
37	Data fusion strategies for performance improvement of a Process Analytical Technology platform consisting of four instruments: An electrospinning case study. *International Journal of Pharmaceutics*, **2019**, 567, 118473	6.5	9
36	Potential of Manuka Honey as a Natural Polyelectrolyte to Develop Biomimetic Nanostructured Meshes With Antimicrobial Properties. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 344	5.8	17
35	Evidence of quasi-intramolecular redox reactions during thermal decomposition of ammonium hydroxodisulfitoferriate(III), (NH4)2[Fe(OH)(SO3)2]·H2O. *Journal of Thermal Analysis and Calorimetry*, **2018**, 132, 493-502	4.1	12
34	Spectroscopic characterization of tablet properties in a continuous powder blending and tableting process. *European Journal of Pharmaceutical Sciences*, **2018**, 123, 10-19	5.1	16
33	Microstructural Distinction of Electrospun Nanofibrous Drug Delivery Systems Formulated with Different Excipients. *Molecular Pharmaceutics*, **2018**, 15, 4214-4225	5.6	21
32	Non-destructive characterisation of all-polypropylene composites using small angle X-ray scattering and polarized Raman spectroscopy. *Composites Part A: Applied Science and Manufacturing* , **2018**, 114, 250-257	8.4	6
31	Continuous end-to-end production of solid drug dosage forms: Coupling flow synthesis and formulation by electrospinning. *Chemical Engineering Journal*, **2018**, 350, 290-299	14.7	46
30	Application of hydroxypropyl methylcellulose as a protective agent against magnesium stearate induced crystallization of amorphous itraconazole. *European Journal of Pharmaceutical Sciences*, **2018**, 121, 301-308	5.1	8
29	Raman Spectroscopy for Process Analytical Technologies of Pharmaceutical Secondary Manufacturing. *AAPS PharmSciTech*, **2018**, 20, 1	3.9	44
28	Pharmaceutical and Macromolecular Technologies in the Spirit of Industry 4.0. *Periodica Polytechnica: Chemical Engineering*, **2018**, 62,	1.3	4
27	Medicated Straws Based on Electrospun Solid Dispersions. *Periodica Polytechnica: Chemical Engineering*, **2018**, 62, 310-316	1.3	6
26	Unexpected Sequential NH/HO Solid/Gas Phase Ligand Exchange and Quasi-Intramolecular Self-Protonation Yield [NHCu(OH)MoO], a Photocatalyst Misidentified before as (NH)Cu(MoO). *Inorganic Chemistry*, **2018**, 57, 13679-13692	5.1	14
25	Scaled-up preparation of drug-loaded electrospun polymer fibres and investigation of their continuous processing to tablet form. *EXPRESS Polymer Letters*, **2018**, 12, 436-451	3.4	29
24	Homogenization of Amorphous Solid Dispersions Prepared by Electrospinning in Low-Dose Tablet Formulation. *Pharmaceutics*, **2018**, 10,	6.4	9

23	Development and tableting of directly compressible powder from electrospun nanofibrous amorphous solid dispersion. *Advanced Powder Technology*, **2017**, 28, 1554-1563	4.6	26
22	Variable clustering and spectral angle mapper-orthogonal projection method for Raman mapping of compound detection in tablets. *Journal of Chemometrics*, **2017**, 31, e2861	1.6	6
21	Investigation of Deteriorated Dissolution of Amorphous Itraconazole: Description of Incompatibility with Magnesium Stearate and Possible Solutions. *Molecular Pharmaceutics*, **2017**, 14, 3927-3934	5.6	11
20	Immobilization engineering How to design advanced sol gel systems for biocatalysis?. *Green Chemistry*, **2017**, 19, 3927-3937	10	30
19	In-line Raman spectroscopic monitoring and feedback control of a continuous twin-screw pharmaceutical powder blending and tableting process. *International Journal of Pharmaceutics*, **2017**, 530, 21-29	6.5	65
18	Controlled-release solid dispersions of Eudragit FS 100 and poorly soluble spironolactone prepared by electrospinning and melt extrusion. *European Polymer Journal*, **2017**, 95, 406-417	5.2	33
17	Raman-Based Feedback Control of the Enzymatic Hydrolysis of Lactose. *Organic Process Research and Development*, **2016**, 20, 1721-1727	3.9	11
16	Lubricant-Induced Crystallization of Itraconazole From Tablets Made of Electrospun Amorphous Solid Dispersion. *Journal of Pharmaceutical Sciences*, **2016**, 105, 2982-2988	3.9	21
15	Detailed stability investigation of amorphous solid dispersions prepared by single-needle and high speed electrospinning. *International Journal of Pharmaceutics*, **2016**, 498, 234-44	6.5	40
14	Quantification and handling of nonlinearity in Raman micro-spectrometry of pharmaceuticals. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 128, 236-246	3.5	8
13	Comparison of spray drying, electroblowing and electrospinning for preparation of Eudragit E and itraconazole solid dispersions. *International Journal of Pharmaceutics*, **2015**, 494, 23-30	6.5	37
12	Feedback Control of Oximation Reaction by Inline Raman Spectroscopy. *Organic Process Research and Development*, **2015**, 19, 189-195	3.9	21
11	Comparison of multivariate linear regression methods in micro-Raman spectrometric quantitative characterization. *Journal of Raman Spectroscopy*, **2015**, 46, 566-576	2.3	17
10	Preparation and comparison of spray dried and electrospun bioresorbable drug delivery systems. *European Polymer Journal*, **2015**, 68, 671-679	5.2	26
9	Melt-blown and electrospun drug-loaded polymer fiber mats for dissolution enhancement: a comparative study. *Journal of Pharmaceutical Sciences*, **2015**, 104, 1767-76	3.9	52
8	Quantification of low drug concentration in model formulations with multivariate analysis using surface enhanced Raman chemical imaging. *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 107, 318-24	3.5	8
7	Plasticized drug-loaded melt electrospun polymer mats: characterization, thermal degradation, and release kinetics. *Journal of Pharmaceutical Sciences*, **2014**, 103, 1278-87	3.9	51
6	Investigation of drug distribution in tablets using surface enhanced Raman chemical imaging. *Journal of Pharmaceutical and Biomedical Analysis*, **2013**, 76, 145-51	3.5	27

5	Comparison of electrospun and extruded Soluplus® -based solid dosage forms of improved dissolution. *Journal of Pharmaceutical Sciences*, **2012**, 101, 322-32	3.9	161
4	Testing the performance of pure spectrum resolution from Raman hyperspectral images of differently manufactured pharmaceutical tablets. *Analytica Chimica Acta*, **2012**, 712, 45-55	6.6	32
3	Characterization of drug-cyclodextrin formulations using Raman mapping and multivariate curve resolution. *Journal of Pharmaceutical and Biomedical Analysis*, **2011**, 56, 38-44	3.5	28
2	Comparison of chemometric methods in the analysis of pharmaceuticals with hyperspectral Raman imaging. *Journal of Raman Spectroscopy*, **2011**, 42, 1977-1986	2.3	70
1	Dynamic disorder in the high-temperature polymorph of bis[diamminesilver(I)] sulfate□easons and consequences of simultaneous ammonia release from two different polymorphs. *Journal of Coordination Chemistry*,1-19	1.6	4