

Jiřň- Chvojka

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

973
citations

430874

18
h-index

454955

30
g-index

48
all docs

48
docs citations

48
times ranked

1134
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical principles of electrospinning (Electrospinning as a nano-scale technology of the twenty-first) Tj ETQq1 1 0.784314 rgBT /Ove	2.0	21
2	Effective AC needleless and collectorless electrospinning for yarn production. Physical Chemistry Chemical Physics, 2014, 16, 26816-26822.	2.8	74
3	Elastic three-dimensional poly (μ -caprolactone) nanofibre scaffold enhances migration, proliferation and osteogenic differentiation of mesenchymal stem cells. Cell Proliferation, 2013, 46, 23-37.	5.3	73
4	Needleless coaxial electrospinning: A novel approach to mass production of coaxial nanofibers. International Journal of Pharmaceutics, 2017, 516, 293-300.	5.2	57
5	A comparison study of nanofiber, microfiber, and new composite nano/microfiber polymers used as sorbents for on-line solid phase extraction in chromatography system. Analytica Chimica Acta, 2018, 1023, 44-52.	5.4	42
6	An on-line coupling of nanofibrous extraction with column-switching high performance liquid chromatography " A case study on the determination of bisphenol A in environmental water samples. Talanta, 2018, 178, 141-146.	5.5	37
7	Composite 3D printed scaffold with structured electrospun nanofibers promotes chondrocyte adhesion and infiltration. Cell Adhesion and Migration, 2018, 12, 271-285.	2.7	36
8	Fabrication of dual-functional composite yarns with a nanofibrous envelope using high throughput AC needleless and collectorless electrospinning. Scientific Reports, 2019, 9, 1801.	3.3	36
9	Impact of Various Sterilization and Disinfection Techniques on Electrospun Poly- μ -caprolactone. ACS Omega, 2020, 5, 8885-8892.	3.5	36
10	The combination of meltblown and electrospinning for bone tissue engineering. Materials Letters, 2015, 143, 172-176.	2.6	35
11	Cell penetration to nanofibrous scaffolds. Cell Adhesion and Migration, 2014, 8, 36-41.	2.7	32
12	Testing of nylon 6 nanofibers with different surface densities as sorbents for solid phase extraction and their selectivity comparison with commercial sorbent. Talanta, 2018, 181, 326-332.	5.5	25
13	Biomimetic hierarchical nanofibrous surfaces inspired by superhydrophobic lotus leaf structure for preventing tissue adhesions. Materials and Design, 2022, 217, 110661.	7.0	25
14	Nanofiber polymers as novel sorbents for on-line solid phase extraction in chromatographic system: A comparison with monolithic reversed phase C18 sorbent. Analytica Chimica Acta, 2018, 1018, 26-34.	5.4	24
15	Novel double-layered planar scaffold combining electrospun PCL fibers and PVA hydrogels with high shape integrity and water stability. Materials Letters, 2020, 263, 127281.	2.6	23
16	3D-Printed Magnetic Stirring Cages for Semidispersive Extraction of Bisphenols from Water Using Polymer Micro- and Nanofibers. Analytical Chemistry, 2020, 92, 3964-3971.	6.5	21
17	Polycaprolactone nanofibers functionalized with a Dopamine coating for on-line solid phase extraction of bisphenols, betablockers, nonsteroidal drugs, and phenolic acids. Mikrochimica Acta, 2019, 186, 710.	5.0	20
18	Estimation of fiber system orientation for nonwoven and nanofibrous layers: local approach based on image analysis. Textile Research Journal, 2014, 84, 989-1006.	2.2	18

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19	The combination of meltblown technology and electrospinning â€œ The influence of the ratio of micro and nanofibers on cell viability. <i>Materials Letters</i> , 2016, 173, 153-157.	2.6	17
20	The effect of material and process parameters on the surface energy of polycaprolactone fibre layers. <i>Materials and Design</i> , 2021, 205, 109748.	7.0	17
21	Microplastic fibers influence Ag toxicity and bioaccumulation in <i>Eisenia andrei</i> but not in <i>Enchytraeus crypticus</i> . <i>Ecotoxicology</i> , 2021, 30, 1216-1226.	2.4	16
22	A PVDF electrospun antifibrotic composite for use as a glaucoma drainage implant. <i>Materials Science and Engineering C</i> , 2021, 119, 111637.	7.3	15
23	Preparation of a Hydrogel Nanofiber Wound Dressing. <i>Nanomaterials</i> , 2021, 11, 2178.	4.1	15
24	New polyamide 6 nanofibrous sorbents produced via alternating current electrospinning for the on-line solid phase extraction of small molecules in chromatography systems. <i>Microchemical Journal</i> , 2022, 174, 107084.	4.5	14
25	ac Bubble Electrospinning Technology for Preparation of Nanofibrous Mats. <i>ACS Omega</i> , 2020, 5, 8268-8271.	3.5	12
26	Screening of extraction properties of nanofibers in a sequential injection analysis system using a 3D printed device. <i>Talanta</i> , 2019, 197, 517-521.	5.5	11
27	Poly-Î¼-caprolactone Nanofibrous Polymers: A Simple Alternative to Restricted Access Media for Extraction of Small Molecules from Biological Matrixes. <i>Analytical Chemistry</i> , 2020, 92, 6801-6805.	6.5	11
28	Improved spinnability of PA 6 solutions using AC electrospinning. <i>Materials Letters</i> , 2021, 283, 128761.	2.6	11
29	Novel nanofibrous sorbents for the extraction and determination of resveratrol in wine. <i>Talanta</i> , 2020, 206, 120181.	5.5	10
30	Preparation of a Composite Scaffold from Polycaprolactone and Hydroxyapatite Particles by Means of Alternating Current Electrospinning. <i>ACS Omega</i> , 2021, 6, 9234-9242.	3.5	10
31	Production of gelatin nanofibrous layers via alternating current electrospinning. <i>Materials Letters</i> , 2019, 252, 186-190.	2.6	9
32	Hydrogel Containing Anti-CD44-Labeled Microparticles, Guide Bone Tissue Formation in Osteochondral Defects in Rabbits. <i>Nanomaterials</i> , 2020, 10, 1504.	4.1	9
33	Comparison study of nanofibers, composite nano/microfiber materials, molecularly imprinted polymers, and core-shell sorbents used for on-line extraction-liquid chromatography of ochratoxins in Tokaj wines. <i>Microchemical Journal</i> , 2021, 170, 106680.	4.5	8
34	Reinforcement of Colonic Anastomosis with Improved Ultrafine Nanofibrous Patch: Experiment on Pig. <i>Biomedicines</i> , 2021, 9, 102.	3.2	7
35	A study on the usage of nonwoven nanofibers in electrical insulating materials. , 2015, , .		6
36	The Optimization of Alternating Current Electrospun PA 6 Solutions Using a Visual Analysis System. <i>Polymers</i> , 2021, 13, 2098.	4.5	6

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37	The modification of the wetting of polycaprolactone nanofibre layers via alternating current spinning. <i>Materials and Design</i> , 2021, 210, 110096.	7.0	6
38	Nanofibrous Online Solid-Phase Extraction Coupled with Liquid Chromatography for the Determination of Neonicotinoid Pesticides in River Waters. <i>Membranes</i> , 2022, 12, 648.	3.0	5
39	The role of pKa, log P of analytes, and protein matrix in solid-phase extraction using native and coated nanofibrous and microfibrinous polymers prepared via meltblowing and combined meltblowing/electrospinning technologies. <i>Talanta</i> , 2021, 232, 122470.	5.5	4
40	Polycaprolactone Composite Micro/Nanofibrous Material as an Alternative to Restricted Access Media for Direct Extraction and Separation of Non-Steroidal Anti-Inflammatory Drugs from Human Serum Using Column-Switching Chromatography. <i>Nanomaterials</i> , 2021, 11, 2669.	4.1	4
41	The Potential for the Direct and Alternating Current-Driven Electrospinning of Polyamides. <i>Nanomaterials</i> , 2022, 12, 665.	4.1	4
42	Partial discharges of nonwoven nanofibers composite. , 2016, , .		3
43	On-line polydopamine coating as a new way to functionalize polypropylene fiber sorbent for solid phase extraction. <i>Talanta</i> , 2020, 219, 121189.	5.5	3
44	The usage of nonwoven nanofibers for improving properties of electrical insulation. , 2016, , .		2
45	Using of statistical tools within optimalization of design of material for high-voltage applications. , 2015, , .		1
46	Needle penetration forces into textile prostheses and skin: experimental study. <i>Journal of the Textile Institute</i> , 0, , 1-8.	1.9	1
47	The effect of the electrospinning setup on the surface energy of polycaprolactone nanofibre layers. <i>Journal of Industrial Textiles</i> , 2022, 51, 8517S-8527S.	2.4	1
48	The theoretical and experimental wetting of polycaprolactone nanofibre layers by gelatin hydrogel. , 2021, , .		0