

Roman Turczyn

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,119
citations

331670

21
h-index

434195

31
g-index

59
all docs

59
docs citations

59
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication and application of electrically conducting composites for electromagnetic interference shielding of remotely piloted aircraft systems. <i>Composite Structures</i> , 2020, 232, 111498.	5.8	61
2	Synthesis and characterization of the electrically conductive polymeric composite for lightning strike protection of aircraft structures. <i>Composite Structures</i> , 2017, 159, 773-783.	5.8	60
3	Pervaporation with chitosan membranes containing iron oxide nanoparticles. <i>Separation and Purification Technology</i> , 2014, 133, 8-15.	7.9	58
4	Gelation studies of a cellulose-based biohydrogel: The influence of pH, temperature and sterilization. <i>Acta Biomaterialia</i> , 2009, 5, 3423-3432.	8.3	56
5	Recent Attempts in the Design of Efficient PVC Plasticizers with Reduced Migration. <i>Materials</i> , 2021, 14, 844.	2.9	52
6	Ultra-long carbon nanotube-paraffin composites of record thermal conductivity and high phase change enthalpy among paraffin-based heat storage materials. <i>Journal of Energy Storage</i> , 2021, 36, 102396.	8.1	52
7	Studies of separation of vapours and gases through composite membranes with ferroferric oxide magnetic nanoparticles. <i>Separation and Purification Technology</i> , 2013, 109, 55-63.	7.9	41
8	In situ self hardening bioactive composite for bone and dental surgery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000, 11, 217-223.	3.5	38
9	An electrically controlled drug delivery system based on conducting poly(3,4-ethylenedioxyppyrrrole) matrix. <i>Bioelectrochemistry</i> , 2016, 108, 13-20.	4.6	38
10	Preparation and Characterization of Iron Oxides – Polymer Composite Membranes. <i>Separation Science and Technology</i> , 2012, 47, 1390-1394.	2.5	37
11	Pervaporative dehydration of ethanol/water mixture through hybrid alginate membranes with ferroferric oxide nanoparticles. <i>Separation and Purification Technology</i> , 2018, 193, 398-407.	7.9	35
12	Observation of Dual Room Temperature Fluorescence – Phosphorescence in Air, in the Crystal Form of a Thianthrene Derivative. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24958-24966.	3.1	31
13	Structure, morphology and separation efficiency of hybrid Alg/Fe ₃ O ₄ membranes in pervaporative dehydration of ethanol. <i>Separation and Purification Technology</i> , 2017, 182, 101-109.	7.9	30
14	Simulation of the movement of beads by the DEM with respect to the wet grinding process. <i>AIChE Journal</i> , 2006, 52, 3421-3426.	3.6	29
15	New type of alginate/chitosan microparticle membranes for highly efficient pervaporative dehydration of ethanol. <i>RSC Advances</i> , 2018, 8, 39567-39578.	3.6	28
16	Betulin-loaded PEDOT films for regional chemotherapy. <i>Materials Science and Engineering C</i> , 2017, 73, 611-615.	7.3	27
17	Lightning strike resistance of an electrically conductive CFRP with a CSA-doped PANI/epoxy matrix. <i>Composite Structures</i> , 2017, 181, 203-213.	5.8	26
18	Robust poly(vinyl alcohol) membranes containing chitosan/chitosan derivatives microparticles for pervaporative dehydration of ethanol. <i>Separation and Purification Technology</i> , 2020, 234, 116094.	7.9	26

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19	Fractal form PEDOT/Au assemblies as thin-film neural interface materials. <i>Biomedical Materials</i> (Bristol), 2018, 13, 054102.	3.3	24
20	Clustering analysis for pervaporation performance assessment of alginate hybrid membranes in dehydration of ethanol. <i>Chemical Engineering Research and Design</i> , 2019, 144, 483-493.	5.6	23
21	In situ Raman spectroscopic studies on potential-induced structural changes in polyaniline thin films synthesized via surface-initiated electropolymerization on covalently modified gold surface. <i>Vibrational Spectroscopy</i> , 2014, 71, 30-36.	2.2	22
22	Evaluation of drug loading capacity and release characteristics of PEDOT/naproxen system: Effect of doping ions. <i>Electrochimica Acta</i> , 2018, 289, 218-227.	5.2	21
23	Electropolymerized phenothiazines for the photochemical generation of singlet oxygen. <i>Electrochimica Acta</i> , 2014, 141, 182-188.	5.2	20
24	Damage resistance of CSA-doped PANI/epoxy CFRP composite during passing the artificial lightning through the aircraft rivet. <i>Engineering Failure Analysis</i> , 2017, 82, 116-122.	4.0	19
25	EQCM verification of the concept of drug immobilization and release from conducting polymer matrix. <i>Electrochimica Acta</i> , 2016, 212, 694-700.	5.2	16
26	Synthesis and characterization of chalcogenophene-based monomers with pyridine acceptor unit. <i>Electrochimica Acta</i> , 2016, 210, 773-782.	5.2	15
27	The effect of solvent on the synthesis and physicochemical properties of poly(3,4-ethylenedioxyppyrrrole). <i>Synthetic Metals</i> , 2016, 217, 231-236.	3.9	13
28	Electrically conductive carbon fibre-reinforced composite for aircraft lightning strike protection. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 201, 012008.	0.6	13
29	Anomalous Diffusion on Fractal Structure of Magnetic Membranes. <i>Acta Physica Polonica B</i> , 2013, 44, 955.	0.8	12
30	A spectrophotometric method for plant pigments determination and herbs classification. <i>Chemical Papers</i> , 2014, 68, .	2.2	12
31	Effect of immobilization and release of ciprofloxacin and quercetin on electrochemical properties of poly(3,4-ethylenedioxyppyrrrole) matrix. <i>Synthetic Metals</i> , 2019, 249, 52-62.	3.9	12
32	Collation Efficiency of Poly(Vinyl Alcohol) and Alginate Membranes with Iron-Based Magnetic Organic/Inorganic Fillers in Pervaporative Dehydration of Ethanol. <i>Materials</i> , 2020, 13, 4152.	2.9	12
33	Oligo-3-hydroxybutyrate functionalised pyrroles for preparation of biodegradable conductive polymers. <i>Journal of Materials Science</i> , 2014, 49, 5227-5236.	3.7	11
34	Removal of Boron from Aqueous Solution by Composite Chitosan Beads. <i>Separation Science and Technology</i> , 2017, , .	2.5	11
35	The Study of Ethanol/Water Vapors Permeation through Sulfuric Acid Cross-Linked Chitosan Magnetic Membranes. <i>Separation Science and Technology</i> , 2014, 49, 1761-1767.	2.5	10
36	The influence of filler type on the separation properties of mixed-matrix membranes. <i>Chemical Papers</i> , 2018, 72, 1095-1105.	2.2	10

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37	The influence of metal oxides on the separation properties of hybrid alginate membranes. Separation Science and Technology, 2018, 53, 1178-1190.	2.5	10
38	Single-molecule magnets as novel fillers with superior dispersibility – First application of a tetranuclear iron(III) molecular magnet [Fe ₄ (acac) ₆ (Br-mp) ₂] for pervaporative dehydration of ethanol. Separation and Purification Technology, 2021, 277, 119038.	7.9	10
39	Robust and high selective chitosan asymmetric Membranes: Relation between microporous structure and pervaporative efficiency in ethanol dehydration. Separation and Purification Technology, 2022, 281, 119897.	7.9	9
40	Doping behaviour of electrochemically generated model bithiophene meta-substituted star shaped oligomer. Materials Chemistry and Physics, 2014, 147, 254-260.	4.0	8
41	Synthesis and testing of a conducting polymeric composite material for lightning strike protection applications. AIP Conference Proceedings, 2017, , .	0.4	8
42	A role of nanotube dangling pyrrole and oxygen functions in the electrochemical synthesis of polypyrrole/MWCNTs hybrid materials. Applied Surface Science, 2014, 317, 794-802.	6.1	7
43	In vitro attenuation of astrocyte activation and neuroinflammation through ibuprofen-doping of poly(3,4-ethylenedioxythiophene) formulations. Bioelectrochemistry, 2020, 134, 107528.	4.6	7
44	Fractal Geometry Characterization of Fracture Profiles of Polymeric Materials. Acta Physica Polonica B, 2014, 45, 2011.	0.8	6
45	VAPOUR PERMEATION STUDY OF WATER AND ETHANOL THROUGH CROSSLINKED CHITOSAN AND ALGINATE MEMBRANES. Progress on Chemistry and Application of Chitin and Its Derivatives, 2015, XX, 281-288.	0.1	6
46	Polyaddition of 3,4-dihydro-2,5-dimethyl-2H-pyran-2-carbaldehyde by metal complexes. Reactive and Functional Polymers, 1995, 26, 35-41.	4.1	5
47	An Investigation of the Behaviour of Magnetorheological Fluids in the Rotary Shock-Absorber. Advanced Materials Research, 2012, 628, 512-517.	0.3	5
48	Determination and Comparison of Ideal and Practical Selectivity Coefficients of Membranes Containing Different Conductive Polymers. Acta Physica Polonica A, 2013, 124, 563-566.	0.5	5
49	Low resistance, highly corrugated structures based on poly(3,4-ethylenedioxythiophene) doped with a d-glucopyranoside-derived ionic liquid. Electrochemistry Communications, 2020, 110, 106616.	4.7	5
50	Spectroscopic evaluation of structural changes in composite materials subjected to self-heating effect. Composite Structures, 2018, 204, 192-197.	5.8	4
51	The effect of high-pressure on organocatalyzed ROP of ϵ -butyrolactone. Polymer, 2021, 233, 124166.	3.8	4
52	The study of ethanol and water vapour permeation process through alginate membranes modified by magnetic powders. , 0, 64, 339-344.		4
53	Mixed Manganese Dioxide on Magnetite Core MnO ₂ @Fe ₃ O ₄ as a Filler in a High-Performance Magnetic Alginate Membrane. Materials, 2021, 14, 7667.	2.9	4
54	Permeation of ethanol and water vapors through chitosan membranes with ferroferric oxide particles cross-linked by glutaraldehyde and sulfuric(VI) acid. Separation Science and Technology, 2016, 51, 2649-2656.	2.5	3

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55	PERVAPORATIVE INVESTIGATION OF ETHYL ALCOHOL DEHYDRATION. Progress on Chemistry and Application of Chitin and Its Derivatives, 2015, XX, 54-63.	0.1	3
56	Title is missing!. Acta Physica Polonica B, 2012, 43, 947.	0.8	2
57	The influence of oxygen conditioning effect on the permeation properties of polyaniline membranes. Separation Science and Technology, 2016, 51, 2667-2674.	2.5	2
58	Boron Removal by Sorption on Modified Chitosan Hydrogel Beads. Materials, 2021, 14, 5646.	2.9	1
59	THE INVESTIGATIONS ON PROCESS TYPE INFLUENCE ON METHYL VIOLET ADSORPTION ON CHITIN AND CHITIN DEACETYLATION PRODUCTS. Progress on Chemistry and Application of Chitin and Its Derivatives, 2015, XX, 273-280.	0.1	0