WÅ‚adysÅ‚aw P WÄglarz

List of Publications by Year
in descending order

59 papers	894 citations	430874 18 h-index	526287 27 g-index
61 all docs	61 docs citations	61 times ranked	1207 citing authors

#	Article	IF	Citations
1	Physical foundations, models, and methods of diffusion magnetic resonance imaging of the brain: A review. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2007, 30A, 278-307.	0.5	71
2	Two-dimensional analysis of the nuclear relaxation function in the time domain: the program CracSpin. Journal Physics D: Applied Physics, 2000, 33, 1909-1920.	2.8	55
3	Iron-Based Metal-Organic Frameworks as a Theranostic Carrier for Local Tuberculosis Therapy. Pharmaceutical Research, 2018, 35, 144.	3.5	51
4	An Inhalable Theranostic System for Local Tuberculosis Treatment Containing an Isoniazid Loaded Metal Organic Framework Fe-MIL-101-NH2â€"From Raw MOF to Drug Delivery System. Pharmaceutics, 2019, 11, 687.	4.5	42
5	Magnetic Resonance Imaging and Image Analysis for Assessment of HPMC Matrix Tablets Structural Evolution in USP Apparatus 4. Pharmaceutical Research, 2011, 28, 1065-1073.	3.5	39
6	The structural and hydration properties of heat-treated rice studied at multiple length scales. Food Chemistry, 2010, 120, 1031-1040.	8.2	37
7	The Investigation of Hydration Processes in Horse Chestnut (Aesculus hippocastanum L.) and Pine (Pinus silvestris L.) Bark and Bast Using Proton Magnetic Relaxation. Holzforschung, 1999, 53, 299-310.	1.9	32
8	An integrated system for dissolution studies and magnetic resonance imaging of controlled release, polymer-based dosage formsâ€"A tool for quantitative assessment of hydrogel formation processes. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 685-693.	2.8	30
9	3D MR imaging of dental cavitiesâ€"an in vitro study. Solid State Nuclear Magnetic Resonance, 2004, 25, 84-87.	2.3	26
10	Air Gun Impactorâ€"A Novel Model of Graded White Matter Spinal Cord Injury in Rodents. Journal of Reconstructive Microsurgery, 2012, 28, 561-568.	1.8	26
11	Fe₃O₄@SiO₂@Au nanoparticles for MRI-guided chemo/NIR photothermal therapy of cancer cells. RSC Advances, 2020, 10, 26508-26520.	3.6	26
12	Characterization of annealed isotactic polypropylene in the solid state by 2D time-domain1H NMR. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 2487-2506.	2.1	25
13	Magnetic Resonance Microscopy for Assessment of Morphological Changes in Hydrating Hydroxypropylmethyl Cellulose Matrix Tablets In Situ. Pharmaceutical Research, 2012, 29, 3420-3433.	3.5	22
14	An understanding of modified release matrix tablets behavior during drug dissolution as the key for prediction of pharmaceutical product performance â€“ case study of multimodal characterization of quetiapine fumarate tablets. International Journal of Pharmaceutics, 2015, 484, 235-245.	5.2	22
15	A volume microstrip RF coil for MRI microscopy. Magnetic Resonance Imaging, 2012, 30, 70-77.	1.8	21
16	Magnetic Resonance Microscopy for Assessment of Morphological Changes in Hydrating Hydroxypropylmethylcellulose Matrix Tablets In Situâ€"Is it Possible to Detect Phenomena Related to Drug Dissolution Within the Hydrated Matrices?. Pharmaceutical Research, 2014, 31, 2383-2392.	3.5	21
17	Real-time mapping of moisture migration in cereal based food systems with Aw contrast by means of MRI. Food Chemistry, 2008, 106, 1366-1374.	8.2	20
18	Polyelectrolyte nanocapsules containing iron oxide nanoparticles as MRI detectable drug delivery system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 351-356.	4.7	20

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19	Poly(Vinyl Alcohol) Cryogel Membranes Loaded with Resveratrol as Potential Active Wound Dressings. AAPS PharmSciTech, 2021, 22, 109.	3.3	18
20	Metastability exchange optical pumping of 3He gas up to hundreds of millibars at 4.7 Tesla. European Physical Journal D, 2013, 67, 1.	1.3	17
21	Multimodal approach to characterization of hydrophilic matrices manufactured by wet and dry granulation or direct compression methods. International Journal of Pharmaceutics, 2016, 499, 263-270.	5.2	17
22	Comparison of T2 and T2 *-weighted MR molecular imaging of a mouse model of glioma. BMC Medical Imaging, 2013, 13, 20.	2.7	16
23	Low Dose Curcumin Administered in Hyaluronic Acid-Based Nanocapsules Induces Hypotensive Effect in Hypertensive Rats. International Journal of Nanomedicine, 2021, Volume 16, 1377-1390.	6.7	16
24	Interfacial Spinâ€“Spin Coupling in Wood by 2D Time-Domain NMR. Journal of Magnetic Resonance Series B, 1996, 113, 1-8.	1.6	15
25	The Relationship Between the Evolution of an Internal Structure and Drug Dissolution from Controlled-Release Matrix Tablets. AAPS PharmSciTech, 2016, 17, 735-742.	3.3	15
26	Magnetically responsive polycaprolactone nanocarriers for application in the biomedical field: magnetic hyperthermia, magnetic resonance imaging, and magnetic drug delivery. RSC Advances, 2020, 10, 43607-43618.	3.6	14
27	ZTE imaging of tight sandstone rocks at 9.4 T â€" Comparison with standard NMR analysis at 0.05 T. Magnetic Resonance Imaging, 2016, 34, 492-495.	1.8	12
28	Nafion-Based Nanocarriers for Fluorine Magnetic Resonance Imaging. Langmuir, 2020, 36, 9534-9539.	3.5	12
29	Analysis of the diffusion weighted MR microscopy data of excised spinal cord of a rat on the basis of the model of restricted diffusion. Solid State Nuclear Magnetic Resonance, 2004, 25, 88-93.	2.3	10
30	Novel method for screening of enteric film coatings properties with magnetic resonance imaging. International Journal of Pharmaceutics, 2013, 456, 569-571.	5.2	10
31	Use of ebselen as a neuroprotective agent in rat spinal cord subjected to traumatic injury. Neural Regeneration Research, 2019, 14, 1255.	3.0	10
32	Hypothalamic and brain stem neurochemical profile in anorectic rats after peripheral administration of kisspeptinâ€10 using ¹Hâ€nmr spectroscopy in vivo. NMR in Biomedicine, 2020, 33, e4306.	2.8	9
33	MR microscopy of water diffusion tensor in biological systems. Applied Magnetic Resonance, 1998, 15, 333-341.	1.2	7
34	A three-dimensional stereotaxic atlas of the gray short-tailed opossum (Monodelphis domestica) brain. Brain Structure and Function, 2018, 223, 1779-1795.	2.3	7
35	ZTE MRI in high magnetic field as a time effective 3D imaging technique for monitoring water ingress in porous rocks at sub-millimetre resolution. Magnetic Resonance Imaging, 2018, 47, 54-59.	1.8	7
36	MRI spectroscopic and tractography studies indicate consequences of long-term ketogenic diet. Brain Structure and Function, 2020, 225, 2077-2089.	2.3	6

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37	Visualisation of the extent of damage in a rat spinal cord injury model using MR microsopy of the water diffusion tensor. Acta Neurobiologiae Experimentalis, 2005, 65, 255-64.	0.7	6
38	Prospects and Challenges for the Spatial Quantification of the Diffusion of Fluids Containing ¹H in the Pore System of Rock Cores. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	6
39	Ratiometric pH-Responsive ¹⁹F Magnetic Resonance Imaging Contrast Agents Based on Hydrazone Switches. Analytical Chemistry, 2022, 94, 3427-3431.	6.5	6
40	NMR detection of liquid-like wood polymer component in dry aspen wood. Polymer, 2013, 54, 1524-1529.	3.8	5
41	White and gray matter contrast enhancement in MR images of the mouse brain in vivo using IR UTE with a cryo-coil at 9.4T. Journal of Neuroscience Methods, 2014, 232, 30-35.	2.5	5
42	Spatiotemporal Analysis of Hydration Mechanism in Sodium Alginate Matrix Tablets. Materials, 2021, 14, 646.	2.9	5
43	Hydration study of homopolypeptides by2H NMR. Biopolymers, 2007, 86, 11-22.	2.4	4
44	Altered Electroencephalography Spectral Profiles in Rats with Different Patterns of Experimental Brain Dysplasia. Birth Defects Research, 2018, 110, 303-316.	1.5	4
45	Volumetric response of the adult brain to seizures depends on the developmental stage when systemic inflammation was induced. Epilepsy and Behavior, 2018, 78, 280-287.	1.7	4
46	Gadolinium labeled polyelectrolyte nanocarriers for theranostic application. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110396.	5.0	4
47	Hydration Patterns in Sodium Alginate Polymeric Matrix Tabletsâ€"The Result of Drug Substance Incorporation. Materials, 2021, 14, 6531.	2.9	4
48	Effective Detection of NafionÂ®-Based Theranostic Nanocapsules Through 19F Ultra-Short Echo Time MRI. Nanomaterials, 2020, 10, 2127.	4.1	3
49	Is the Activity-Based Anorexia Model a Reliable Method of Presenting Peripheral Clinical Features of Anorexia Nervosa?. Nutrients, 2021, 13, 2876.	4.1	3
50	Proton and Deuteron Relaxation Study of Molecular Dynamics in Lysozyme Solutions. Acta Physica Polonica A, 2000, 98, 131-152.	0.5	3
51	3D Printing for Fast Prototyping of Pharmaceutical Dissolution Testing Equipment for Nonstandard Applications. Dissolution Technologies, 2018, 25, 48-53.	0.6	3
52	Polyaminoacid Based Core@shell Nanocarriers of 5-Fluorouracil: Synthesis, Properties and Theranostics Application. International Journal of Molecular Sciences, 2021, 22, 12762.	4.1	3
53	Extended magnetic resonance imaging studies on the effect of classically activated microglia transplantation on white matter regeneration following spinal cord focal injury in adult rats. Experimental and Therapeutic Medicine, 2017, 14, 4869-4877.	1.8	2
54	Spatiotemporal characterization of hydration process of asymmetric polymeric wound dressings for decubitus ulcers. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 843-853.	3.4	2

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55	Changes of EEG spectra in rat brains with different patterns of dysplasia in response to pilocarpine-induced seizures. Epilepsy and Behavior, 2020, 111, 107288.	1.7	1
56	Magnetic Resonance Imaging for Assessment of Endodontic Instrumentsâ€™ Precision during â€œL-Shapedâ€• Model Root Canals Preparation. Applied Sciences (Switzerland), 2021, 11, 1051.	2.5	1
57	In Vitro Wound Dressing Stack Model as a First Step to Evaluate the Behavior of Dressing Materials in Wound Bedâ€”An Assessment of Mass Transport Phenomena in Hydrogel Wound Dressings. Materials, 2021, 14, 7702.	2.9	1
58	Intrinsic proton relaxation parameters of hydrated polyglycine from two-dimensional time domain NMR. , 1999, 50, 630-640.		0
59	MR Diffusion Anisotropy Imaging of Spinal Cord Mechanical Compression and Injury on the Rat Model. In Vivo. Neuroradiology Journal, 2008, 21, 219-227.	1.2	0