

Artur T Krzyzak

List of Publications by Year in descending order

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49
papers

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759055

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50
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear magnetic resonance footprint of Wharton Jelly mesenchymal stem cells death mechanisms and distinctive in-cell biophysical properties in vitro. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 1501-1514.	1.6	6
2	Prospects and Challenges for the Spatial Quantification of the Diffusion of Fluids Containing ^{1}H in the Pore System of Rock Cores. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	6
3	Enhanced Resolution Analysis for Water Molecules in MCM-41 and SBA-15 in Low-Field T2 Relaxometric Spectra. <i>Molecules</i> , 2021, 26, 2133.	1.7	0
4	Screening Metal-Organic Frameworks for Separation of Binary Solvent Mixtures by Compact NMR Relaxometry. <i>Molecules</i> , 2021, 26, 3481.	1.7	3
5	NMR relaxometry interpretation of source rock liquid saturation – A holistic approach. <i>Marine and Petroleum Geology</i> , 2021, 132, 105165.	1.5	25
6	Diffusion as a Natural Contrast in MR Imaging of Peripheral Artery Disease (PAD) Tissue Changes. A Case Study of the Clinical Application of DTI for a Patient with Chronic Calf Muscles Ischemia. <i>Diagnostics</i> , 2021, 11, 92.	1.3	6
7	Water Interactions in Hybrid Polyacrylate-Silicate Hydrogel Systems. <i>Materials</i> , 2020, 13, 4092.	1.3	3
8	Attempts at the Characterization of In-Cell Biophysical Processes Non-Invasively – Quantitative NMR Diffusometry of a Model Cellular System. <i>Cells</i> , 2020, 9, 2124.	1.8	7
9	Identification of Proton Populations in Cherts as Natural Analogues of Pure Silica Materials by Means of Low Field NMR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5225-5240.	1.5	8
10	Overcoming the barriers to the exploration of nanoporous shales porosity. <i>Microporous and Mesoporous Materials</i> , 2020, 298, 110003.	2.2	15
11	Fracture orientation and fluid flow direction recognition in carbonates using diffusion-weighted nuclear magnetic resonance imaging: An example from Permian. <i>Journal of Applied Geophysics</i> , 2020, 174, 103964.	0.9	14
12	Assessment of the systematic errors caused by diffusion gradient inhomogeneity in DTI – computer simulations. <i>NMR in Biomedicine</i> , 2019, 32, e4130.	1.6	16
13	Towards the precise microstructural mapping. Testing new anisotropic phantoms with layered and capillary geometries. , 2019, 2019, 2835-2839.		2
14	Synthesis and characterization of cross-linked poly(sodium acrylate)/sodium silicate hydrogels. <i>Polymer Engineering and Science</i> , 2019, 59, 1279-1287.	1.5	9
15	Exploring a carbonate reef reservoir – nuclear magnetic resonance and computed microtomography confronted with narrow channel and fracture porosity. <i>Journal of Applied Geophysics</i> , 2018, 151, 343-358.	0.9	20
16	ZTE MRI in high magnetic field as a time effective 3D imaging technique for monitoring water ingress in porous rocks at sub-millimetre resolution. <i>Magnetic Resonance Imaging</i> , 2018, 47, 54-59.	1.0	7
17	The generalized Stejskal-Tanner equation for non-uniform magnetic field gradients. <i>Journal of Magnetic Resonance</i> , 2018, 296, 23-28.	1.2	22
18	Analysis and correction of errors in DTI-based tractography due to diffusion gradient inhomogeneity. <i>Journal of Magnetic Resonance</i> , 2018, 296, 5-11.	1.2	27

#	ARTICLE	IF	CITATIONS
19	Diffusion-weighted nuclear magnetic resonance imaging (DWI) for fluid flow direction and intensity recognition in carbonates – examples from Permian reefs. , 2018, , .		0
20	A theoretical validation of the B-matrix spatial distribution approach to diffusion tensor imaging. Magnetic Resonance Imaging, 2017, 36, 1-6.	1.0	20
21	A textural and diagenetic assessment of the Zechstein Limestone carbonates, Poland using the transverse Nuclear Magnetic Resonance relaxometry. Journal of Petroleum Science and Engineering, 2017, 152, 538-548.	2.1	12
22	High-resolution computed microtomography for the characterization of a diffusion tensor imaging phantom. Acta Geophysica, 2017, 65, 259-268.	1.0	3
23	Insight into oil and gas-shales compounds signatures in low field 1H NMR and its application in porosity evaluation. Microporous and Mesoporous Materials, 2017, 252, 37-49.	2.2	40
24	Translational and Rotational Dynamics of Molecules Confined in Zeolite Nanocages by Means of Deuteron NMR. Journal of Physical Chemistry C, 2017, 121, 26472-26482.	1.5	8
25	PETROPHYSICAL CHARACTERIZATION OF THE PORE SPACE IN GASBEARING MIOCENE ROCKS FROM THE SIEDLECZKA AREA (THE CARPATHIAN FOREDEEP, POLAND). , 2017, , .		1
26	FOSSIL-RELATED POROSITY SCANNING BY MEANS OF THE NUCLEAR MAGNETIC RESONANCE AND COMPUTED MICROTOMOGRAPHY - THE PERMIAN BRONSKO REEF CARBONATES, WESTERN POLAND. , 2017, , .		0
27	POROSITY VARIATIONS OF THE MAIN DOLOMITE ROCKS IN THE P-1 WELL (W POLAND) IN THE SCOPE OF LOW-FIELD NMR. , 2017, , .		0
28	COMPARATIVE ANALYSIS OF RESERVOIR PARAMETERS OF FLYSCH SANDSTONES IN THE S-8 WELL (WESTERN) Tj ETQq0 0 0 ggBT /Over		
29	Parameterized signal calibration for NMR cryoporometry experiment without external standard. Journal of Magnetic Resonance, 2016, 269, 97-103.	1.2	1
30	Low field 1 H NMR characterization of mesoporous silica MCM-41 and SBA-15 filled with different amount of water. Microporous and Mesoporous Materials, 2016, 231, 230-239.	2.2	44
31	ZTE imaging of tight sandstone rocks at 9.4 T – Comparison with standard NMR analysis at 0.05 T. Magnetic Resonance Imaging, 2016, 34, 492-495.	1.0	12
32	Innovative anisotropic phantoms for calibration of diffusion tensor imaging sequences. Magnetic Resonance Imaging, 2016, 34, 404-409.	1.0	17
33	Sulphate-induced Porosity Reduction in Permian Reef, SW Poland in the Scope of Nuclear Magnetic Resonance studies. , 2016, , .		0
34	The b matrix calculation using the anisotropic phantoms for DWI and DTI experiments. , 2015, 2015, 418-21.		3
35	Theoretical analysis of phantom rotations in BSD-DTI. , 2015, 2015, 410-3.		4
36	Anisotropic phantoms in Magnetic Resonance Imaging. , 2015, 2015, 414-7.		3

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37	Improving the accuracy of PGSE DTI experiments using the spatial distribution of b matrix. Magnetic Resonance Imaging, 2015, 33, 286-295.	1.0	31
38	The isolated Wuchiapingian (Zechstein) Wielichowo Reef and its sedimentary and diagenetic evolution, SW Poland. Geological Quarterly, 2015, 59, .	0.1	6
39	Significance of pressure solution structures analysis for fluid flow studies – examples from Struga-1 well (Zechstein Main Dolomite; W Poland) : first results. Geology Geophysics & Environment, 2015, 41, 82.	1.0	1
40	Identification of tectonic microstructures in flysch sandstones of the Outer Carpathians using X-ray nanotomography and nuclear magnetic resonance – first results. Geology Geophysics & Environment, 2015, 41, 127.	1.0	0
41	HIGH-RESOLUTION X-RAY MICROTOMOGRAPHY AND NUCLEAR MAGNETIC RESONANCE STUDY OF A CARBONATE RESERVOIR ROCK. , 2011, , .		1
42	Assessment of white and grey matter injury in rats spinal cord using alterations of the water diffusion tensor parameters. Journal of the Neurological Sciences, 2009, 283, 279.	0.3	0
43	Quantitative Assessment of Injury in Rat Spinal Cords In Vivo by MRI of Water Diffusion Tensor. Applied Magnetic Resonance, 2008, 34, 3-20.	0.6	8
44	Visualisation of the extent of damage in a rat spinal cord injury model using MR microscopy of the water diffusion tensor. Acta Neurobiologiae Experimentalis, 2005, 65, 255-64.	0.4	6
45	MR microscopy of water diffusion tensor in biological systems. Applied Magnetic Resonance, 1998, 15, 333-341.	0.6	7
46	Magnetic resonance microscopy of internal structure of drone and queen honey bees. Journal of Apicultural Research, 1996, 35, 3-9.	0.7	10
47	Improving precision and accuracy of DTI experiments with the simplified BSD calibration – computer simulations. , 0, , .		2
48	Approximation of the actual spatial distribution of the b-matrix in diffusion tensor imaging with bivariate polynomials. , 0, , .		0
49	Determination of the quality of results obtained by various numerical methods for BSD.. , 0, , .		0