Artur T Krzyzak

List of Publications by Year
in descending order

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49 papers	437 citations	759055 12 h-index	794469 19 g-index
50 all docs	50 docs citations	50 times ranked	379 citing authors

#	Article	IF	Citations
1	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
2	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
3	Improving the accuracy of PGSE DTI experiments using the spatial distribution of b matrix. Magnetic Resonance Imaging, 2015, 33, 286-295.	1.0	31
4	Analysis and correction of errors in DTI-based tractography due to diffusion gradient inhomogeneity. Journal of Magnetic Resonance, 2018, 296, 5-11.	1.2	27
5	NMR relaxometry interpretation of source rock liquid saturation â€" A holistic approach. Marine and Petroleum Geology, 2021, 132, 105165.	1.5	25
6	The generalized Stejskal-Tanner equation for non-uniform magnetic field gradients. Journal of Magnetic Resonance, 2018, 296, 23-28.	1.2	22
7	A theoretical validation of the B-matrix spatial distribution approach to diffusion tensor imaging. Magnetic Resonance Imaging, 2017, 36, 1-6.	1.0	20
8	Exploring a carbonate reef reservoir â€" nuclear magnetic resonance and computed microtomography confronted with narrow channel and fracture porosity. Journal of Applied Geophysics, 2018, 151, 343-358.	0.9	20
9	Innovative anisotropic phantoms for calibration of diffusion tensor imaging sequences. Magnetic Resonance Imaging, 2016, 34, 404-409.	1.0	17
10	Assessment of the systematic errors caused by diffusion gradient inhomogeneity in DTIâ€computer simulations. NMR in Biomedicine, 2019, 32, e4130.	1.6	16
11	Overcoming the barriers to the exploration of nanoporous shales porosity. Microporous and Mesoporous Materials, 2020, 298, 110003.	2.2	15
12	Fracture orientation and fluid flow direction recognition in carbonates using diffusion-weighted nuclear magnetic resonance imaging: An example from Permian. Journal of Applied Geophysics, 2020, 174, 103964.	0.9	14
13	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.	1.0	12
14	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
15	Magnetic resonance microscopy of internal structure of drone and queen honey bees. Journal of Apicultural Research, 1996, 35, 3-9.	0.7	10
16	Synthesis and characterization of crossâ€linked poly(sodium acrylate)/sodium silicate hydrogels. Polymer Engineering and Science, 2019, 59, 1279-1287.	1.5	9
17	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
18	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

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19	Identification of Proton Populations in Cherts as Natural Analogues of Pure Silica Materials by Means of Low Field NMR. Journal of Physical Chemistry C, 2020, 124, 5225-5240.	1.5	8
20	MR microscopy of water diffusion tensor in biological systems. Applied Magnetic Resonance, 1998, 15, 333-341.	0.6	7
21	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.	1.0	7
22	Attempts at the Characterization of In-Cell Biophysical Processes Non-Invasivelyâ€"Quantitative NMR Diffusometry of a Model Cellular System. Cells, 2020, 9, 2124.	1.8	7
23	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. Diagnostics, 2021, 11, 92.	1.3	6
24	The isolated Wuchiapingian (Zechstein) Wielichowo Reef and its sedimentary and diagenetic evolution, SW Poland. Geological Quarterly, 2015, 59, .	0.1	6
25	Nuclear magnetic resonance footprint of Wharton Jelly mesenchymal stem cells death mechanisms and distinctive inâ€cell biophysical properties in vitro. Journal of Cellular and Molecular Medicine, 2022, 26, 1501-1514.	1.6	6
26	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.	0.4	6
27	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, .	1.4	6
28	Theoretical analysis of phantom rotations in BSD-DTI. , 2015, 2015, 410-3.		4
29	The b matrix calculation using the anisotropic phantoms for DWI and DTI experiments. , 2015, 2015, 418-21.		3
30	Anisotropic phantoms in Magnetic Resonance Imaging. , 2015, 2015, 414-7.		3
31	High-resolution computed microtomography for the characterization of a diffusion tensor imaging phantom. Acta Geophysica, 2017, 65, 259-268.	1.0	3
32	Water Interactions in Hybrid Polyacrylate-Silicate Hydrogel Systems. Materials, 2020, 13, 4092.	1.3	3
33	Screening Metalâ€"Organic Frameworks for Separation of Binary Solvent Mixtures by Compact NMR Relaxometry. Molecules, 2021, 26, 3481.	1.7	3
34	Towards the precise microstructural mapping. Testing new anisotropic phantoms with layered and capillary geometries. , 2019, 2019, 2835-2839.		2
35	Improving precision and accuracy of DTI experiments with the simplified BSD calibration â€" computer simulations. , 0, , .		2
36	Parameterized signal calibration for NMR cryoporometry experiment without external standard. Journal of Magnetic Resonance, 2016, 269, 97-103.	1.2	1

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37	HIGH-RESOLUTION X-RAY MICROTOMOGRAPHY AND NUCLEAR MAGNETIC RESONANCE STUDY OF A CARBONATE RESERVOIR ROCK. , 2011, , .		1
38	PETROPHYSICAL CHARACTERIZATION OF THE PORE SPACE IN GASBEARING MIOCENE ROCKS FROM THE SIEDLECZKA AREA (THE CARPATHIAN FOREDEEP, POLAND). , 2017, , .		1
39	Significance of pressure solution structures analysis for fluid flow studies â€“ examples from Struga-1 well (Zechstein Main Dolomite; W Poland) : first results. Geology Geophysics & Environment, 2015, 41, 82.	1.0	1
40	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
41	Enhanced Resolution Analysis for Water Molecules in MCM-41 and SBA-15 in Low-Field T2 Relaxometric Spectra. Molecules, 2021, 26, 2133.	1.7	0
42	Identification of tectonic microstructures in flysch sandstones of the Outer Carpathians using X-ray nanotomography and nuclear magnetic resonance â€“ first results. Geology Geophysics & Environment, 2015, 41, 127.	1.0	0
43	Sulphate-induced Porosity Reduction in Permian Reef, SW Poland in the Scope of Nuclear Magnetic Resonance studies. , 2016, , .		0
44	Approximation of the actual spatial distribution of the b-matrix in diffusion tensor imaging with bivariate polynomials. , 0, , .		0
45	Determination of the quality of results obtained by various numerical methods for BSD.. , 0, , .		0
46	FOSSIL-RELATED POROSITY SCANNING BY MEANS OF THE NUCLEAR MAGNETIC RESONANCE AND COMPUTED MICROTOMOGRAPHY - THE PERMIAN BRONSKO REEF CARBONATES, WESTERN POLAND. , 2017, , .		0
47	POROSITY VARIATIONS OF THE MAIN DOLOMITE ROCKS IN THE P-1 WELL (W POLAND) IN THE SCOPE OF LOW-FIELD NMR. , 2017, , .		0
48	COMPARATIVE ANALYSIS OF RESERVOIR PARAMETERS OF FLYSCH SANDSTONES IN THE S-8 WELL (WESTERN) Tj ETQq0 0 0 rgBT /Overl		0
49	Diffusion-weighted nuclear magnetic resonance imaging (DWI) for fluid flow direction and intensity recognition in carbonates â€“ examples from Permian reefs. , 2018, , .		0