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List of Publications by Year
in descending order

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39 papers	616 citations	567281 15 h-index	610901 24 g-index
40 all docs	40 docs citations	40 times ranked	898 citing authors

#	Article	IF	Citations
1	Structure formation and coarsening kinetics of phase-separated spin-coated ethylcellulose/hydroxypropylcellulose films. Soft Matter, 2022, 18, 3206-3217.	2.7	3
2	Threeâ€dimensional reconstruction of porous polymer films from FIBâ€SEM nanotomography data using random forests. Journal of Microscopy, 2021, 281, 76-86.	1.8	26
3	DeepFRAP: Fast fluorescence recovery after photobleaching data analysis using deep neural networks. Journal of Microscopy, 2021, 282, 146-161.	1.8	6
4	Convolutional neural networks for segmentation of FIBâ€SEM nanotomography data from porous polymer films for controlled drug release. Journal of Microscopy, 2021, 283, 51-63.	1.8	6
5	Correlating 3D porous structure in polymer films with mass transport properties using FIB-SEM tomography. Chemical Engineering Science: X, 2021, 12, 100109.	1.5	3
6	New Characterization Measures of Pore Shape and Connectivity Applied to Coatings used for Controlled Drug Release. Journal of Pharmaceutical Sciences, 2021, 110, 2753-2764.	3.3	2
7	Tessellation-based stochastic modelling of 3D coating structures imaged with FIB-SEM tomography. Computational Materials Science, 2021, 197, 110611.	3.0	0
8	Structure evolution during phase separation in spin-coated ethylcellulose/hydroxypropylcellulose films. Soft Matter, 2021, 17, 3913-3922.	2.7	5
9	Large-Scale Statistical Learning for Mass Transport Prediction in Porous Materials Using 90,000 Artificially Generated Microstructures. Frontiers in Materials, 2021, 8, .	2.4	21
10	3D high spatial resolution visualisation and quantification of interconnectivity in polymer films. International Journal of Pharmaceutics, 2020, 587, 119622.	5.2	8
11	Predicting permeability via statistical learning on higher-order microstructural information. Scientific Reports, 2020, 10, 15239.	3.3	28
12	Optimization of FIBâ€“SEM Tomography and Reconstruction for Soft, Porous, and Poorly Conducting Materials. Microscopy and Microanalysis, 2020, 26, 837-845.	0.4	26
13	A Highly Accurate Pixel-Based FRAP Model Based on Spectral-Domain Numerical Methods. Biophysical Journal, 2019, 116, 1348-1361.	0.5	9
14	Massively parallel approximate Bayesian computation for estimating nanoparticle diffusion coefficients, sizes and concentrations using confocal laser scanning microscopy. Journal of Microscopy, 2018, 271, 174-182.	1.8	0
15	Computational Screening of Diffusive Transport in Nanoplatelet-Filled Composites: Use of Graphene To Enhance Polymer Barrier Properties. ACS Applied Nano Materials, 2018, 1, 160-167.	5.0	13
16	Effective diffusivity in lattices of impermeable superballs. Physical Review E, 2018, 98, .	2.1	7
17	Scaling exponent and dispersity of polymers in solution by diffusion NMR. Journal of Colloid and Interface Science, 2017, 493, 393-397.	9.4	9
18	Shape-dependent effective diffusivity in packings of hard cubes and cuboids compared with spheres and ellipsoids. Soft Matter, 2017, 13, 8864-8870.	2.7	9

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19	Carbon Nanotube Length Governs the Viscoelasticity and Permeability of Buckypaper. Polymers, 2017, 9, 115.	4.5	17
20	The Power of Heterogeneity: Parameter Relationships from Distributions. PLoS ONE, 2016, 11, e0155718.	2.5	5
21	The lognormal and gamma distribution models for estimating molecular weight distributions of polymers using PGSE NMR. Journal of Magnetic Resonance, 2016, 267, 54-62.	2.1	33
22	Approximate Bayesian computation for estimating number concentrations of monodisperse nanoparticles in suspension by optical microscopy. Physical Review E, 2016, 93, 063311.	2.1	6
23	Obtaining T 1 - T 2 distribution functions from 1-dimensional T 1 and T 2 measurements: The pseudo 2-D relaxation model. Journal of Magnetic Resonance, 2016, 269, 186-195.	2.1	14
24	Computational high-throughput screening of fluid permeability in heterogeneous fiber materials. Soft Matter, 2016, 12, 6293-6299.	2.7	12
25	Stejskalâ€tanner equation for three asymmetrical gradient pulse shapes used in diffusion <scp>NMR</scp>. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2015, 44, 133-137.	0.5	3
26	Magnetic alignment of nontronite dispersions. Applied Clay Science, 2015, 116-117, 167-174.	5.2	1
27	Gamma convolution models for self-diffusion coefficient distributions in PGSE NMR. Journal of Magnetic Resonance, 2015, 261, 6-10.	2.1	24
28	Estimation of mass thickness response of embedded aggregated silica nanospheres from high angle annular darkâ€field scanning transmission electron micrographs. Journal of Microscopy, 2014, 253, 166-170.	1.8	4
29	Fluorescence Lifetime Analysis of Graphene Quantum Dots. Journal of Physical Chemistry C, 2014, 118, 30282-30290.	3.1	31
30	Identifying directional persistence in intracellular particle motion using Hidden Markov Models. Mathematical Biosciences, 2014, 248, 140-145.	1.9	17
31	On-chip light sheet illumination enables diagnostic size and concentration measurements of membrane vesicles in biofluids. Nanoscale, 2014, 6, 1741-1747.	5.6	53
32	Multi-scale characterization of pasta during cooking using microscopy and real-time magnetic resonance imaging. Food Research International, 2014, 66, 132-139.	6.2	22
33	Microstructure and water distribution of commercial pasta studied by microscopy and 3D magnetic resonance imaging. Food Research International, 2014, 62, 644-652.	6.2	18
34	Measuring absolute nanoparticle number concentrations from particle count time series. Journal of Microscopy, 2013, 251, 19-26.	1.8	11
35	Automatic particle detection in microscopy using temporal correlations. Microscopy Research and Technique, 2013, 76, 997-1006.	2.2	0
36	Selfâ€calibrated concentration measurements of polydisperse nanoparticles. Journal of Microscopy, 2013, 252, 79-88.	1.8	8

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37	The gamma distribution model for pulsed-field gradient NMR studies of molecular-weight distributions of polymers. Journal of Magnetic Resonance, 2012, 222, 105-111.	2.1	72
38	Hemocompatibility of siRNA loaded dextran nanogels. Biomaterials, 2011, 32, 9120-9127.	11.4	62
39	Measuring absolute number concentrations of nanoparticles using single-particle tracking. Physical Review E, 2011, 84, 031920.	2.1	21