

S J F Erich

List of Publications by Year in descending order

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40
papers

701
citations

516710

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580821

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all docs

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docs citations

40
times ranked

725
citing authors

#	ARTICLE	IF	CITATIONS
1	Bound and free water distribution in wood during water uptake and drying as measured by 1D magnetic resonance imaging. <i>Cellulose</i> , 2017, 24, 535-553.	4.9	118
2	Morphology, binding behavior and MR properties of paramagnetic collagen-binding liposomes. <i>Contrast Media and Molecular Imaging</i> , 2009, 4, 81-88.	0.8	42
3	Release of cerium dibutylphosphate corrosion inhibitors from highly filled epoxy coating systems. <i>Progress in Organic Coatings</i> , 2014, 77, 1562-1568.	3.9	42
4	Water-Polymer Interaction during Water Uptake. <i>Macromolecules</i> , 2011, 44, 4863-4871.	4.8	38
5	Moisture transport in coated wood. <i>Progress in Organic Coatings</i> , 2011, 72, 686-694.	3.9	35
6	In-depth study of drying solvent-borne alkyd coatings in presence of Mn- and Fe- based catalysts as cobalt alternatives. <i>Materials Today Communications</i> , 2016, 7, 22-31.	1.9	28
7	Dynamics of cross linking fronts in alkyd coatings. <i>Applied Physics Letters</i> , 2005, 86, 134105.	3.3	27
8	Water permeability of pigmented waterborne coatings. <i>Progress in Organic Coatings</i> , 2013, 76, 60-69.	3.9	27
9	Curing Processes in Solvent-Borne Alkyd Coatings with Different Drier Combinations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8166-8170.	2.6	25
10	NMR Imaging of Water Uptake in Multilayer Polymeric Films: Stressing the Role of Mechanical Stress. <i>Macromolecules</i> , 2010, 43, 3882-3889.	4.8	24
11	Predicting water transport in multilayer coatings. <i>Polymer</i> , 2012, 53, 3304-3312.	3.8	23
12	Film Formation of High T_g Latex Using Hydroplasticization: Explanations from NMR Relaxometry. <i>Langmuir</i> , 2019, 35, 12418-12427.	3.5	22
13	Development and evaluation of a biocide release system for prolonged antifungal activity in finishing materials. <i>Progress in Organic Coatings</i> , 2012, 74, 640-644.	3.9	20
14	Dissolution properties of cerium dibutylphosphate corrosion inhibitors. <i>Corrosion Engineering Science and Technology</i> , 2013, 48, 234-240.	1.4	19
15	NMR Imaging of Coatings on Porous Substrates. <i>Chemistry of Materials</i> , 2006, 18, 4500-4504.	6.7	18
16	Quantitative measurements of capillary absorption in thin porous media by the Automatic Scanning Absorptometer. <i>Chemical Engineering Science</i> , 2018, 178, 70-81.	3.8	17
17	Sorption of water-glycerol mixtures in porous Al ₂ O ₃ studied with NMR imaging. <i>Chemical Engineering Science</i> , 2017, 173, 218-229.	3.8	14
18	Hydroplasticization of latex films with varying methacrylic acid content. <i>Polymer</i> , 2019, 166, 206-214.	3.8	14

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19	The influence of the pigment volume concentration on the curing of alkyd coatings: A 1D MRI depth profiling study. <i>Progress in Organic Coatings</i> , 2008, 63, 399-404.	3.9	13
20	Modelling biocide release based on coating properties. <i>Progress in Organic Coatings</i> , 2016, 90, 171-177.	3.9	13
21	Inhibition of pH fronts in corrosion cells due to the formation of cerium hydroxide. <i>Electrochimica Acta</i> , 2013, 110, 491-500.	5.2	12
22	Effect of MHEC on evaporation and hydration characteristics of glue mortar. <i>Cement and Concrete Research</i> , 2016, 83, 97-103.	11.0	12
23	The influence of calcium and zirconium based secondary driers on drying solvent borne alkyd coatings. <i>Polymer</i> , 2017, 121, 262-273.	3.8	12
24	Water mobility during drying of hard and soft type latex: Systematic GARField 1H NMR relaxometry studies. <i>Progress in Organic Coatings</i> , 2018, 123, 111-119.	3.9	10
25	High-resolution NMR imaging of paramagnetic liposomes targeted to a functionalized surface. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1282-1286.	3.0	9
26	High-speed NMR imaging of capillary action in thin nontransparent porous media. <i>Physical Review E</i> , 2021, 104, L043101.	2.1	9
27	Transport of a water-soluble polymer during drying of a model porous media. <i>Drying Technology</i> , 2017, 35, 1874-1886.	3.1	8
28	Moisture content of the coating determines the water permeability as measured by 1D magnetic resonance imaging. <i>Progress in Organic Coatings</i> , 2019, 130, 114-123.	3.9	8
29	High spatial resolution NMR imaging of polymer layers on metallic substrates. <i>Journal of Magnetic Resonance</i> , 2012, 214, 227-236.	2.1	7
30	Understanding the influence of wood as a substrate on the permeability of coatings by NMR imaging and wet-cup. <i>Progress in Organic Coatings</i> , 2018, 114, 135-144.	3.9	7
31	NMR Profiling of Reaction and Transport in Thin Layers: A Review. <i>Polymers</i> , 2022, 14, 798.	4.5	6
32	Nano-particle dynamics during capillary suction. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 69-80.	9.4	4
33	Understanding the water absorption from MHEC modified glue mortar into porous tile: Influence of pre-drying. <i>Construction and Building Materials</i> , 2019, 217, 363-371.	7.2	4
34	How methylhydroxyethylcellulose (MHEC) influences drying in porous media. <i>Chemical Engineering Science</i> , 2015, 123, 620-628.	3.8	3
35	Effect of Non-Condensable Gasses on the Performance of a Vacuum Thermochemical Reactor. <i>Energies</i> , 2020, 13, 362.	3.1	3
36	Effect of interfacial transport on the diffusivity of highly filled polymers. <i>Colloids and Interface Science Communications</i> , 2021, 42, 100405.	4.1	3

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37	Surface characterization of drying acrylic latex dispersions with variable methacrylic acid content using surface dilatational rheology. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 584-591.	9.4	2
38	Exploring water and ion transport process at silicone/copper interfaces using in-situ electrochemical and Kelvin probe approaches. <i>Journal of Materials Science and Technology</i> , 2021, 64, 203-213.	10.7	2
39	The influence of phosphor particles on the water transport in optical silicones for LEDs. <i>Optical Materials: X</i> , 2020, 6, 100047.	0.8	1
40	Numerical Analysis of Flow and Mass Transfer in Humid Fractal Surfaces. , 0, , .		0