Brian Antalek

List of Publications by Year
in descending order

38 papers	1,713 citations	279798 23 h-index	345221 36 g-index
39 all docs	39 docs citations	39 times ranked	1676 citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive Structural Assessment of Linear Block Polymers by NMR and SEC. Macromolecules, 2019, 52, 1025-1032.	4.8	3
2	Thermal stiffening of hydrophobic association hydrogels. Polymer, 2018, 145, 374-381.	3.8	12
3	Synergistic Thermoresponsive Optical Properties of a Composite Self-Healing Hydrogel. Macromolecules, 2017, 50, 3671-3679.	4.8	61
4	Structural, thermal, and spectral characterization of the different crystalline forms of Alq3, tris(quinolin-8-olato)aluminum(III), an electroluminescent material in OLED technology. Polyhedron, 2009, 28, 835-843.	2.2	73
5	Organic Solvent-Dispersed TiO2 Nanoparticle Characterization. Langmuir, 2009, 25, 12713-12720.	3.5	26
6	Using PGSE NMR for chemical mixture analysis: Quantitative aspects. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2007, 30A, 219-235.	0.5	42
7	Accounting for Spin Relaxation in Quantitative Pulse Gradient Spin Echo NMR Mixture Analysis. Journal of the American Chemical Society, 2006, 128, 8402-8403.	13.7	30
8	Controlled, Simultaneous Assembly of Polyethylenimine onto Nanoparticle Silica Colloids. Langmuir, 2006, 22, 4198-4207.	3.5	17
9	Azine bridged silver coordination polymers: Powder X-ray diffraction route to crystal structure determination of silver benzotriazole. Journal of Solid State Chemistry, 2006, 179, 1053-1059.	2.9	30
10	Amphiphilic maleic acid-containing alternating copolymers?2. Dilute solution characterization by light scattering, intrinsic viscosity, and PGSE NMR spectroscopy. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 3584-3597.	2.1	17
11	Amphiphilic maleic acid-containing alternating copolymers?1. Dissociation behavior and compositions. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 3571-3583.	2.1	33
12	Interaction of Vinyl Pyrrolidone and Vinyl Acetate Copolymer with Surfactants. Langmuir, 2004, 20, 11818-11820.	3.5	10
13	Microstructure Considerations of New Five-Component Winsor IV Food-Grade Microemulsions Studied by Pulsed Gradient Spinâˆ¼Echo NMR, Conductivity, and Viscosity. Langmuir, 2003, 19, 1063-1068.	3.5	73
14	Combined Use of Conventional and Second-Derivative Data in the SIMPLISMA Self-Modeling Mixture Analysis Approach. Analytical Chemistry, 2002, 74, 1371-1379.	6.5	105
15	The use of PGSE NMR and DECRA for determining polymer composition. Magnetic Resonance in Chemistry, 2002, 40, S60-S71.	1.9	39
16	Using pulsed gradient spin echo NMR for chemical mixture analysis: How to obtain optimum results. Concepts in Magnetic Resonance, 2002, 14, 225-258.	1.3	277
17	A study of the microstructure of four-component sucrose ester microemulsions by SAXS and NMR. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 180, 173-186.	4.7	55
18	Applications of the direct exponential curve resolution algorithm (DECRA) to solid state nuclear magnetic resonance and mid-infrared spectra. Journal of Chemometrics, 2000, 14, 213-227.	1.3	22

#	Article	IF	Citations
19	Magnetic resonance imaging of the filtration process. AICHE Journal, 2000, 46, 6-14.	3.6	21
20	Resolving nuclear magnetic resonance data of complex mixtures by three-way methods:. Chemometrics and Intelligent Laboratory Systems, 1999, 46, 207-219.	3.5	19
21	Applications and new developments of the direct exponential curve resolution algorithm (DECRA). Examples of spectra and magnetic resonance images. Journal of Chemometrics, 1999, 13, 95-110.	1.3	39
22	Elucidation of Polymorph Mixtures Using Solid-State13C CP/MAS NMR Spectroscopy and Direct Exponential Curve Resolution Algorithm. Journal of the American Chemical Society, 1999, 121, 11554-11557.	13.7	61
23	Polymerâˆ¼Surfactant Interaction and Stability of Amorphous Colloidal Particles. Journal of Physical Chemistry B, 1999, 103, 9867-9872.	2.6	29
24	Multivariate Image Analysis of Magnetic Resonance Images with the Direct Exponential Curve Resolution Algorithm (DECRA). Journal of Magnetic Resonance, 1998, 132, 298-306.	2.1	48
25	Multivariate Image Analysis of Magnetic Resonance Images with the Direct Exponential Curve Resolution Algorithm (DECRA). Journal of Magnetic Resonance, 1998, 132, 307-315.	2.1	35
26	Reverse micelle to sponge phase transition. Journal of Chemical Physics, 1997, 106, 7869-7872.	3.0	7
27	Microstructure analysis at the percolation threshold in reverse microemulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 128, 1-11.	4.7	36
28	Direct exponential curve resolution algorithm (DECRA): A novel application of the generalized rank annihilation method for a single spectral mixture data set with exponentially decaying contribution profiles. Chemometrics and Intelligent Laboratory Systems, 1997, 37, 241-254.	3.5	161
29	Cosurfactant facilitated transport in reverse microemulsions. , 1997, , 160-169.		4
30	Generalized Rank Annihilation Method Applied to a Single Multicomponent Pulsed Gradient Spin Echo NMR Data Set. Journal of the American Chemical Society, 1996, 118, 10331-10332.	13.7	89
31	Self-diffusion near the percolation threshold in reverse microemulsions. Physical Review E, 1996, 54, R5913-R5916.	2.1	8
32	Diffusion and Scaling Behavior of Polymer-Surfactant Aggregates. Physical Review Letters, 1995, 75, 983-983.	7.8	3
33	Diffusion and Scaling Behavior of Polymer-Surfactant Aggregates. Physical Review Letters, 1995, 74, 3624-3627.	7.8	24
34	The viscosity of polymerâ€"surfactant mixtures in water. Journal of Chemical Physics, 1994, 100, 5294-5300.	3.0	110
35	The use of NMR to study sodium dodecyl sulfate-gelatin interactions. Langmuir, 1994, 10, 68-71.	3.5	63
36	NMR Analysis of Interfacial Structure Transitions Accompanying Electron-Transfer Threshold Transition in Reverse Microemulsions. Langmuir, 1994, 10, 4459-4467.	3.5	16

#	Article	IF	Citations
37	Cosurfactant-induced electron transfer in highly resistive microemulsions. Langmuir, 1993, 9, 2782-2785.	3.5	15
38	Multivariate Image Analysis of Magnetic Resonance Images: Component Resolution with the Direct Exponential Curve Resolution Algorithm (DECRA). , 0, , 261-287.		0