

Timothy A Barbari

List of Publications by Year in descending order

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20
papers

406
citations

840776

11
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

458
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of diffusion in polymers using evanescent field spectroscopy. <i>AICHE Journal</i> , 1995, 41, 795-804.	3.6	76
2	Time-resolved Fourier transform infrared/attenuated total reflection spectroscopy for the measurement of molecular diffusion in polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 2794-2807.	2.1	63
3	Diffusion of interleukin-2 from cells overlaid with cytocompatible enzyme-crosslinked gelatin hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 25-32.	4.0	35
4	Quantitative Analysis of Polymer Dilution during Sorption Using FTIR-ATR Spectroscopy. <i>Macromolecules</i> , 2003, 36, 9574-9584.	4.8	34
5	Histologic evaluation of the inflammatory response around implanted hollow fiber membranes. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 52, 183-192.	3.1	33
6	Separating solvation from molecular diffusion in polymers. <i>AICHE Journal</i> , 2001, 47, 1255-1262.	3.6	21
7	Multicomponent diffusion of hydrogen-bonding solutes in a polymer. <i>AICHE Journal</i> , 2002, 48, 1610-1620.	3.6	19
8	Transport properties of pHEMA membranes for optical glucose affinity sensors. <i>Journal of Membrane Science</i> , 2003, 212, 75-86.	8.2	19
9	Modeling the Response Time of an In Vivo Glucose Affinity Sensor. <i>Biotechnology Progress</i> , 1999, 15, 259-266.	2.6	17
10	A Dual Mode, Local Equilibrium Relaxation Model for Small Molecule Diffusion in a Glassy Polymer. <i>Macromolecules</i> , 2008, 41, 238-245.	4.8	16
11	Effect of Penetrant-Polymer Interactions on Molecular Diffusion in Conformational Isomers of a Heterogeneous Polymer. <i>Macromolecules</i> , 2001, 34, 6268-6273.	4.8	15
12	A dual mode interpretation of the kinetics of penetrant-induced swelling and deswelling in a glassy polymer. <i>Polymer</i> , 2010, 51, 5145-5150.	3.8	11
13	Effect of Unequal Transport Rates and Intersolute Solvation on the Selective Batch Extraction of a Dilute Mixture with a Dense Polymeric Sorbent. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 1188-1194.	3.7	9
14	Single and multi-component diffusion at infinite dilution in polyisobutylene. <i>Polymer International</i> , 1999, 48, 901-908.	3.1	8
15	Acetic Acid Diffusion in Polyisobutylene: Probing Small Molecule Structures. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 3076-3084.	3.7	7
16	Transport of toluene/methyl ethyl ketone mixtures in polyisobutylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 908-914.	2.1	6
17	Counteracting apoptosis and necrosis with hypoxia responsive expression of Bcl-2. <i>Metabolic Engineering</i> , 2006, 8, 483-490.	7.0	5
18	Integrated non-invasive system for quantifying secreted human therapeutic hIL2. <i>Biotechnology and Bioengineering</i> , 2006, 95, 938-945.	3.3	4

#	ARTICLE	IF	CITATIONS
19	Permeation Breakthrough Models for Associating and Solvating Penetrants in a Membrane. Industrial & Engineering Chemistry Research, 1997, 36, 483-492.	3.7	3
20	Solubility of organic solvents at infinite dilution in polyisobutylene. Journal of Applied Polymer Science, 2000, 76, 1980-1983.	2.6	1