

Ronald C Chatelier

List of Publications by Citations

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28

papers

1,602

citations

20

h-index

28

g-index

28

ext. papers

1,648

ext. citations

3

avg, IF

3.73

L-index

#	Paper	IF	Citations
28	Growth of human cells on plasma polymers: putative role of amine and amide groups. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1994 , 5, 531-54	3.5	170
27	Characterization of the Ageing of Plasma-deposited Polymer Films: Global Analysis of X-ray Photoelectron Spectroscopy Data. <i>Surface and Interface Analysis</i> , 1996 , 24, 271-281	1.5	160
26	Effect of polysaccharide structure on protein adsorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2000 , 17, 37-48	6	151
25	A multi-technique study of the spontaneous oxidation of N-hexane plasma polymers. <i>Journal of Polymer Science Part A</i> , 1994 , 32, 1399-1414	2.5	107
24	Biomedical coatings by the covalent immobilization of polysaccharides onto gas-plasma-activated polymer surfaces. <i>Surface and Interface Analysis</i> , 2000 , 29, 46-55	1.5	100
23	Quantitative Analysis of Polymer Surface Restructuring. <i>Langmuir</i> , 1995 , 11, 2576-2584	4	97
22	Correlation of the Nitrogen 1s and Oxygen 1s XPS Binding Energies with Compositional Changes During Oxidation of Ethylene Diamine Plasma Polymers. <i>Surface and Interface Analysis</i> , 1996 , 24, 611-619	1.5	92
21	Evolution of the surface composition and topography of perfluorinated polymers following ammonia-plasma treatment. <i>Journal of Adhesion Science and Technology</i> , 1994 , 8, 305-328	2	88
20	Theory of Contact Angles and the Free Energy of Formation of Ionizable Surfaces: Application to Heptylamine Radio-Frequency Plasma-Deposited Films. <i>Langmuir</i> , 1995 , 11, 4122-4128	4	69
19	Surface characterization of plasma polymers from amine, amide and alcohol monomers. <i>Journal of Applied Polymer Science</i> , 1990 , 46, 361-384	2.9	64
18	Method of immobilization of carboxymethyl-dextran affects resistance to tissue and cell colonization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2000 , 18, 221-234	6	58
17	Sedimentation equilibrium in macromolecular solutions of arbitrary concentration. I. Self-associating proteins. <i>Biopolymers</i> , 1987 , 26, 507-24	2.2	58
16	Degradation of medical-grade polyurethane elastomers: the effect of hydrogen peroxide in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 1993 , 27, 345-56		49
15	Effects of plasma modification conditions on surface restructuring. <i>Langmuir</i> , 1995 , 11, 2585-2591	4	44
14	Polyurethane elastomers based on novel polyether macrodiols and MDI: Synthesis, mechanical properties, and resistance to hydrolysis and oxidation. <i>Journal of Applied Polymer Science</i> , 1992 , 46, 319-328	2.0	44
13	Contributions of restructuring and oxidation to the aging of the surface of plasma polymers containing heteroatoms. <i>Plasmas and Polymers</i> , 1997 , 2, 91-114		40
12	Incorporation of Surface Topography in the XPS Analysis of Curved or Rough Samples Covered by Thin Multilayers. <i>Surface and Interface Analysis</i> , 1997 , 25, 741-746	1.5	32

11	Indefinite isoenthalpic self-association of solute molecules. <i>Biophysical Chemistry</i> , 1987 , 28, 121-8	3.5	30
10	Hybrid biomaterials: Surface-MALDI mass spectrometry analysis of covalent binding versus physisorption of proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2000 , 17, 23-35	6	28
9	Sedimentation equilibrium in macromolecular solutions of arbitrary concentration. II. Two protein components. <i>Biopolymers</i> , 1987 , 26, 1097-113	2.2	27
8	Concurrent restructuring and oxidation of the surface of n-hexane plasma polymers during aging in air. <i>Plasmas and Polymers</i> , 1996 , 1, 207-228		20
7	Plasma surface modifications for improved biocompatibility of commercial polymers. <i>Polymer International</i> , 1992 , 27, 109-117	3.3	18
6	Covalent attachment and non-specific binding of reactive probe molecules onto surfaces. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1995 , 7, 601-22	3.5	17
5	Determination of the Intrinsic Acid-Base Dissociation Constant and Site Density of Ionizable Surface Groups by Capillary Rise Measurements. <i>Langmuir</i> , 1997 , 13, 3043-3046	4	11
4	Covalently Attached Thin Coatings Comprising Saccharide and Alkylene Oxide Segments 1996 , 147-156		8
3	A quantitative model for the surface restructuring of repeatedly plasma treated silicone rubber. <i>Plasmas and Polymers</i> , 1997 , 2, 41-51		7
2	Elimination of stick-slip of elastomeric sutures by radiofrequency glow discharge deposited coatings. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 53, 235-43		7
1	Mechanism of the Initial Attachment of Human Vein Endothelial Cells onto Polystyrene-Based Culture Surfaces and Surfaces Prepared by Radiofrequency Plasmas. <i>ACS Symposium Series</i> , 1995 , 436-449	8.4	6