Zenon Pawlak

List of Publications by Year
in descending order

35 papers	714 citations	516710 16 h-index	552781 26 g-index
35 all docs	35 docs citations	35 times ranked	553 citing authors

#	Article	IF	Citations
1	Articular cartilage. Strong adsorption and cohesion of phospholipids with the quaternary ammonium cations providing satisfactory lubrication of natural joints. BioSystems, 2019, 176, 27-31.	2.0	4
2	The Anomalies of Hyaluronan Structures in Presence of Surface Active Phospholipidsâ€"Molecular Mass Dependence. Polymers, 2018, 10, 273.	4.5	8
3	Repulsive surfaces and lamellar lubrication of synovial joints. Archives of Biochemistry and Biophysics, 2017, 623-624, 42-48.	3.0	5
4	Tribological efficacy and stability of phospholipid-based membrane lubricants in varying <i>p</i>H chemical conditions. Biointerphases, 2016, 11, 019002.	1.6	10
5	The amphoteric effect on friction between the bovine cartilage/cartilage surfaces under slightly sheared hydration lubrication mode. Colloids and Surfaces B: Biointerfaces, 2016, 146, 452-458.	5.0	13
6	The Probable Explanation for the Low Friction of Natural Joints. Cell Biochemistry and Biophysics, 2015, 71, 1615-1621.	1.8	20
7	Lamellar slippage of bilayersâ€"A hypothesis on low friction of natural joints. Biointerphases, 2014, 9, 041004.	1.6	6
8	Some conceptual thoughts toward nanoscale oriented friction in a model of articular cartilage. Mathematical Biosciences, 2013, 244, 188-200.	1.9	28
9	Relationship Between Wettability and Lubrication Characteristics of the Surfaces of Contacting Phospholipid-Based Membranes. Cell Biochemistry and Biophysics, 2013, 65, 335-345.	1.8	29
10	Natural articular joints: model of lamellar-roller-bearing lubrication and the nature of the cartilage surface. , 2013, , 253-310.		2
11	A Microanalytical Study of the Surfaces of Normal, Delipidized, and Artificially â€œResurfacedâ€• Articular Cartilage. Connective Tissue Research, 2012, 53, 236-245.	2.3	16
12	The ultra-low friction of the articular surface is pH-dependent and is built on a hydrophobic underlay including a hypothesis on joint lubrication mechanism. Tribology International, 2010, 43, 1719-1725.	5.9	23
13	Energy conservation through recycling of used oil. Ecological Engineering, 2010, 36, 1761-1764.	3.6	22
14	DETERMINATION OF OIL AND GREASE, TOTAL PETROLEUM HYDROCARBONS AND VOLATILE AROMATIC COMPOUNDS IN SOIL AND SEDIMENT SAMPLES. Journal of Environmental Engineering and Landscape Management, 2010, 18, 163-169.	1.0	17
15	Conceptualisation of articular cartilage as a giant reverse micelle: A hypothetical mechanism for joint biocushioning and lubrication. BioSystems, 2008, 94, 193-201.	2.0	16
16	Determination of heavy metals and volatile aromatic compounds in used engine oils and sludges. Fuel, 2006, 85, 481-485.	6.4	50
17	A Review of Infrared Spectra from Wood and Wood Components Following Treatment with Liquid Ammonia and Solvated Electrons in Liquid Ammonia. Applied Spectroscopy Reviews, 1997, 32, 349-383.	6.7	25
18	Direct determination of p<i>K</i>_a values of cationic acids conjugated to heterocyclic amine <i>N</i>â€oxides in polar aprotic and amphiprotic solvents. Journal of Heterocyclic Chemistry, 1997, 34, 215-219.	2.6	3

#	Article	IF	Citations
19	Dissociation constants of substituted phenols and homoconjugation constants of the corresponding phenolâ€"phenolate systems in acetonitrile. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 119-122.	1.7	30
20	Infrared Studies of Wood Weathering. Part I: Softwoods. Applied Spectroscopy, 1991, 45, 641-647.	2.2	118
21	Infrared Studies of Wood Weathering. Part II: Hardwoods. Applied Spectroscopy, 1991, 45, 648-652.	2.2	43
22	Ionic equilibria of pyridine N-oxide perchlorates in acetonitrile. Electrochimica Acta, 1990, 35, 665-671.	5.2	44
23	Solvent effects on acid-base behaviour Acidity constants of eight protonated substituted pyridines in (acetonitrile+water). Journal of Chemical Thermodynamics, 1987, 19, 443-447.	2.0	18
24	Dissociation of phenols and phenolate salts and homocomplexation in the corresponding phenolâ€"phenolate systems in benzonitrile. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 2021.	1.0	9
25	Proton-transfer equilibria for N-baseâ€"trimethyl-N-oxide cation systems in acetonitrile. Journal of the Chemical Society Faraday Transactions I, 1983, 79, 1523.	1.0	17
26	Dissociation constants of some phenols and homoconjugation constants of the corresponding phenolâ€"phenolate systems in propylene carbonate. Journal of the Chemical Society Faraday Transactions I, 1982, 78, 2807.	1.0	13
27	Hydrogen bonding and proton transfer in the complexes between pyridinium cations and amines in acetone solution. Journal of the Chemical Society Faraday Transactions I, 1982, 78, 2685.	1.0	24
28	Hydrogen bonding and proton transfer in hydrido-bis-phenolate complexes in acetone. Journal of the Chemical Society Faraday Transactions I, 1982, 78, 2157.	1.0	12
29	Thermometric titration of some amines in waterâ€"acetone mixtures. Thermochimica Acta, 1982, 59, 313-318.	2.7	7
30	Calorimetric studies of hydrogen-bond formation in propylene carbonate II. Some cationic complexes at 298.15 K. Journal of Chemical Thermodynamics, 1982, 14, 1041-1046.	2.0	20
31	Conductance of substituted amine perchlorates and picrates in N-methyl-2-pyrrolidinone at 25ï¿½C. Journal of Solution Chemistry, 1982, 11, 69-77.	1.2	4
32	Conductance of HCl in water-sulfolane solvents at 25, 30, and 40ï¿½C; a comparison of conductance equations. Journal of Solution Chemistry, 1981, 10, 333-342.	1.2	5
33	Solute-solvent interactions in acid-base dissociation: Seven protonated nitrogen bases in water-N-methyl-2-pyrrolidinone solvents. Journal of Solution Chemistry, 1976, 5, 325-332.	1.2	10
34	Solvent effects on acid-base behavior: Five uncharged acids in water-sulfolane solvents. Journal of Solution Chemistry, 1976, 5, 213-222.	1.2	12
35	Solute-solvent interactions in acid-base dissociation: nine protonated nitrogen bases in water-DMSO solvents. Journal of Solution Chemistry, 1975, 4, 817-829.	1.2	31