

Zenon Pawlak

List of Publications by Year in descending order

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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	Infrared Studies of Wood Weathering. Part I: Softwoods. <i>Applied Spectroscopy</i> , 1991, 45, 641-647.	2.2	118
2	Determination of heavy metals and volatile aromatic compounds in used engine oils and sludges. <i>Fuel</i> , 2006, 85, 481-485.	6.4	50
3	Ionic equilibria of pyridine N-oxide perchlorates in acetonitrile. <i>Electrochimica Acta</i> , 1990, 35, 665-671.	5.2	44
4	Infrared Studies of Wood Weathering. Part II: Hardwoods. <i>Applied Spectroscopy</i> , 1991, 45, 648-652.	2.2	43
5	Solute-solvent interactions in acid-base dissociation: nine protonated nitrogen bases in water-DMSO solvents. <i>Journal of Solution Chemistry</i> , 1975, 4, 817-829.	1.2	31
6	Dissociation constants of substituted phenols and homoconjugation constants of the corresponding phenol \leftrightarrow phenolate systems in acetonitrile. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 119-122.	1.7	30
7	Relationship Between Wettability and Lubrication Characteristics of the Surfaces of Contacting Phospholipid-Based Membranes. <i>Cell Biochemistry and Biophysics</i> , 2013, 65, 335-345.	1.8	29
8	Some conceptual thoughts toward nanoscale oriented friction in a model of articular cartilage. <i>Mathematical Biosciences</i> , 2013, 244, 188-200.	1.9	28
9	A Review of Infrared Spectra from Wood and Wood Components Following Treatment with Liquid Ammonia and Solvated Electrons in Liquid Ammonia. <i>Applied Spectroscopy Reviews</i> , 1997, 32, 349-383.	6.7	25
10	Hydrogen bonding and proton transfer in the complexes between pyridinium cations and amines in acetone solution. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1982, 78, 2685.	1.0	24
11	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. <i>Tribology International</i> , 2010, 43, 1719-1725.	5.9	23
12	Energy conservation through recycling of used oil. <i>Ecological Engineering</i> , 2010, 36, 1761-1764.	3.6	22
13	Calorimetric studies of hydrogen-bond formation in propylene carbonate II. Some cationic complexes at 298.15 K. <i>Journal of Chemical Thermodynamics</i> , 1982, 14, 1041-1046.	2.0	20
14	The Probable Explanation for the Low Friction of Natural Joints. <i>Cell Biochemistry and Biophysics</i> , 2015, 71, 1615-1621.	1.8	20
15	Solvent effects on acid-base behaviour Acidity constants of eight protonated substituted pyridines in (acetonitrile+water). <i>Journal of Chemical Thermodynamics</i> , 1987, 19, 443-447.	2.0	18
16	Proton-transfer equilibria for N-base \leftrightarrow trimethyl-N-oxide cation systems in acetonitrile. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1983, 79, 1523.	1.0	17
17	DETERMINATION OF OIL AND GREASE, TOTAL PETROLEUM HYDROCARBONS AND VOLATILE AROMATIC COMPOUNDS IN SOIL AND SEDIMENT SAMPLES. <i>Journal of Environmental Engineering and Landscape Management</i> , 2010, 18, 163-169.	1.0	17
18	Conceptualisation of articular cartilage as a giant reverse micelle: A hypothetical mechanism for joint biocushioning and lubrication. <i>BioSystems</i> , 2008, 94, 193-201.	2.0	16

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19	A Microanalytical Study of the Surfaces of Normal, Delipidized, and Artificially "Resurfaced" Articular Cartilage. <i>Connective Tissue Research</i> , 2012, 53, 236-245.	2.3	16
20	Dissociation constants of some phenols and homoconjugation constants of the corresponding phenol-phenolate systems in propylene carbonate. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1982, 78, 2807.	1.0	13
21	The amphoteric effect on friction between the bovine cartilage/cartilage surfaces under slightly sheared hydration lubrication mode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 452-458.	5.0	13
22	Solvent effects on acid-base behavior: Five uncharged acids in water-sulfolane solvents. <i>Journal of Solution Chemistry</i> , 1976, 5, 213-222.	1.2	12
23	Hydrogen bonding and proton transfer in hydrido-bis-phenolate complexes in acetone. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1982, 78, 2157.	1.0	12
24	Solute-solvent interactions in acid-base dissociation: Seven protonated nitrogen bases in water-N-methyl-2-pyrrolidinone solvents. <i>Journal of Solution Chemistry</i> , 1976, 5, 325-332.	1.2	10
25	Tribological efficacy and stability of phospholipid-based membrane lubricants in varying pH chemical conditions. <i>Biointerphases</i> , 2016, 11, 019002.	1.6	10
26	Dissociation of phenols and phenolate salts and homocomplexation in the corresponding phenol-phenolate systems in benzonitrile. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1985, 81, 2021.	1.0	9
27	The Anomalies of Hyaluronan Structures in Presence of Surface Active Phospholipids—Molecular Mass Dependence. <i>Polymers</i> , 2018, 10, 273.	4.5	8
28	Thermometric titration of some amines in water-acetone mixtures. <i>Thermochimica Acta</i> , 1982, 59, 313-318.	2.7	7
29	Lamellar slippage of bilayers—A hypothesis on low friction of natural joints. <i>Biointerphases</i> , 2014, 9, 041004.	1.6	6
30	Conductance of HCl in water-sulfolane solvents at 25, 30, and 40°C; a comparison of conductance equations. <i>Journal of Solution Chemistry</i> , 1981, 10, 333-342.	1.2	5
31	Repulsive surfaces and lamellar lubrication of synovial joints. <i>Archives of Biochemistry and Biophysics</i> , 2017, 623-624, 42-48.	3.0	5
32	Conductance of substituted amine perchlorates and picrates in N-methyl-2-pyrrolidinone at 25°C. <i>Journal of Solution Chemistry</i> , 1982, 11, 69-77.	1.2	4
33	Articular cartilage. Strong adsorption and cohesion of phospholipids with the quaternary ammonium cations providing satisfactory lubrication of natural joints. <i>BioSystems</i> , 2019, 176, 27-31.	2.0	4
34	Direct determination of K_a values of cationic acids conjugated to heterocyclic amine N-oxides in polar aprotic and amphiprotic solvents. <i>Journal of Heterocyclic Chemistry</i> , 1997, 34, 215-219.	2.6	3
35	Natural articular joints: model of lamellar-roller-bearing lubrication and the nature of the cartilage surface. , 2013, , 253-310.		2