

Claudio Della Volpe

List of Publications by Year in descending order

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72
papers

2,656
citations

230014

27
h-index

206121

51
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83
all docs

83
docs citations

83
times ranked

3021
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional roles of hairs and spines in old man of the Andes cactus: Droplet distant coalescence and mechanical strength. <i>Physics of Fluids</i> , 2022, 34, .	1.6	5
2	Contact angles: history of over 200 years of open questions. <i>Surface Innovations</i> , 2020, 8, 3-27.	1.4	168
3	The Notched Stick, an ancient vibrot example. <i>PLoS ONE</i> , 2019, 14, e0218666.	1.1	3
4	The Wilhelmy method: a critical and practical review. <i>Surface Innovations</i> , 2018, 6, 120-132.	1.4	40
5	A New Approach to Calculating the "Corporate" EROI. <i>BioPhysical Economics and Resource Quality</i> , 2018, 3, 1.	2.4	3
6	Contact angles and wettability: towards common and accurate terminology. <i>Surface Innovations</i> , 2017, 5, 3-8.	1.4	328
7	"Climate change in a shoebox"™: a critical review. <i>European Journal of Physics</i> , 2014, 35, 025016.	0.3	4
8	Gold oxide films grown in the confined aqueous layer between gold and organic solvents. <i>Journal of Electroanalytical Chemistry</i> , 2014, 728, 94-101.	1.9	1
9	Electrochemical and optical study of the confined aqueous layer adsorbed on gold electrodes cycled in phosphate and dodecylsulphate solutions. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 1355-1360.	1.5	0
10	Surface wettability of model microporous membranes enhances rat liver cell functions in sub-confluent adherent culture in a continuous-flow recycle bioreactor depending on the ammonia concentration challenge. <i>Journal of Membrane Science</i> , 2014, 464, 149-160.	4.1	2
11	Paleoclimatic constraints on the CO2 atmospheric retention factor. <i>Biogeochemistry</i> , 2013, 112, 511-518.	1.7	0
12	Carbon xerogels as electrodes for supercapacitors. The influence of the catalyst concentration on the microstructure and on the electrochemical properties. <i>Journal of Materials Science</i> , 2012, 47, 7175-7180.	1.7	23
13	Hydrophobic siloxane paper coatings: the effect of increasing methyl substitution. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 62, 441-452.	1.1	30
14	A "conveyor belt"™ model for the dynamic contact angle. <i>European Journal of Physics</i> , 2011, 32, 1019-1032.	0.3	5
15	Hemocompatibility of pyrolytic carbon in comparison with other biomaterials. <i>Diamond and Related Materials</i> , 2011, 20, 762-769.	1.8	14
16	Hybrid organic-inorganic materials on paper: surface and thermo-mechanical properties. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 315-323.	1.1	14
17	Wettability of Porous Materials III: Is the Wilhelmy Method Useful for Fabrics Analysis?. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 149-169.	1.4	9
18	Numerical models for the evaluation of the contact angle from axisymmetric drop profiles: A statistical comparison. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 285-297.	5.0	29

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19	Principal component analysis and multicomponent surface free energy theories. <i>Journal of Mathematical Chemistry</i> , 2008, 43, 1032-1051.	0.7	4
20	Some mathematical aspects of the Kelvin equation. <i>Computers and Mathematics With Applications</i> , 2008, 55, 51-65.	1.4	6
21	Enzymatically-tailored pectins differentially influence the morphology, adhesion, cell cycle progression and survival of fibroblasts. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 995-1003.	1.1	28
22	Modulation of fibroblast behaviour by enzymatically-tailored pectins: PectiCoat. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008, 11, 171-172.	0.9	1
23	Cathodic Electrografting of Versatile Ligands on Si(100) as a Low-Impact Approach for Establishing a Si-C Bond: A Surface-Coordination Study of Substituted 2,2'-Bipyridines with Cu Ions. <i>Chemistry - A European Journal</i> , 2007, 13, 1240-1250.	1.7	18
24	Electrochemical impedance spectroscopy of polybithiophene films in an aqueous LiClO ₄ solution. <i>Comptes Rendus Chimie</i> , 2007, 10, 558-563.	0.2	12
25	Comment on "Is a Sessile Drop in an Atmosphere Saturated with Its Vapor Really at Equilibrium?" and Subsequent Criticism. <i>Langmuir</i> , 2006, 22, 5963-5967.	1.6	4
26	Molecular connectivity methods for the characterization of surface energetics of liquids and polymers. <i>Journal of Colloid and Interface Science</i> , 2006, 296, 292-308.	5.0	12
27	Comment to the paper: Enhancing surface free energy and hydrophilicity through chemical modification of microstructured titanium implant surfaces, by F. Rupp, L. Scheideler, N. Olshanska, M. de Wild, M. Wieland, J. Geis-Gerstorfer. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 752-754.	2.1	6
28	Contact angle analysis on polymethylmethacrylate and commercial wax by using an environmental scanning electron microscope. <i>Scanning</i> , 2006, 28, 267-273.	0.7	42
29	Surface Treatment. , 2006, , 541-551.		2
30	Electrochemical impedance spectroscopy of poly(3-methoxythiophene) thin films in aqueous LiClO ₄ solutions. <i>Synthetic Metals</i> , 2005, 155, 569-575.	2.1	23
31	The solid surface free energy calculation. <i>Journal of Colloid and Interface Science</i> , 2004, 271, 434-453.	5.0	183
32	The solid surface free energy calculation. <i>Journal of Colloid and Interface Science</i> , 2004, 271, 454-472.	5.0	87
33	The application of the contact angle in monument protection: new materials and methods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 241, 299-312.	2.3	47
34	Effects on Interfacial Properties and Cell Adhesion of Surface Modification by Pectic Hairy Regions. <i>Biomacromolecules</i> , 2004, 5, 2094-2104.	2.6	76
35	Hydrophilic Poly(ether-ester)s and Poly(ether-ester-amide)s Derived from Poly(ϵ -caprolactone) and ω -COCl Terminated PEG Macromers. <i>Macromolecular Bioscience</i> , 2003, 3, 749-757.	2.1	8
36	Recent theoretical and experimental advancements in the application of the van Oss-Chaudhury-Good acid-base theory to the analysis of polymer surfaces II. Some peculiar cases. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 1425-1456.	1.4	37

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37	Recent theoretical and experimental advancements in the application of van Oss's "Chaudhury's" Good acid-base theory to the analysis of polymer surfaces I. General aspects. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 1477-1505.	1.4	47
38	Correct use of the contact angle in the evaluation of the protective action induced from polymer coating on the stone. <i>Annali Di Chimica</i> , 2003, 93, 881-8.	0.6	8
39	Comments on Some Recent Papers on Interfacial Tension and Contact Angles. <i>Langmuir</i> , 2002, 18, 1441-1444.	1.6	40
40	A new experimental method to analyse the dewetting properties of polymer surfaces and cationic surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 206, 125-133.	2.3	1
41	The determination of a "stable-equilibrium" contact angle on heterogeneous and rough surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 206, 47-67.	2.3	110
42	Macrodefect-Free Cements: The Effect of Chemical Composition on Microstructure. <i>Chemistry of Materials</i> , 2001, 13, 4335-4341.	3.2	2
43	An Experimental Procedure to Obtain the Equilibrium Contact Angle from the Wilhelmy Method. <i>Oil and Gas Science and Technology</i> , 2001, 56, 9-22.	1.4	60
44	The combined effect of roughness and heterogeneity on contact angles: the case of polymer coating for stone protection. <i>Journal of Adhesion Science and Technology</i> , 2000, 14, 273-299.	1.4	54
45	Acid-base surface free energies of solids and the definition of scales in the Good's "van Oss's" Chaudhury theory. <i>Journal of Adhesion Science and Technology</i> , 2000, 14, 235-272.	1.4	159
46	The effect of surface roughness of microporous membranes on the kinetics of oxygen consumption and ammonia elimination by adherent hepatocytes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 641-655.	1.9	45
47	The Interaction of Lipodepsipeptide Toxins from <i>Pseudomonas syringae</i> pv. <i>syringae</i> with Biological and Model Membranes: A Comparison of Syringotoxin, Syringomycin, and Two Syringopeptins. <i>Molecular Plant-Microbe Interactions</i> , 1999, 12, 391-400.	1.4	83
48	Letter to the Editor. , 1998, 42, 473-474.		14
49	Wilhelmy Plate Measurements on Poly(N-isopropylacrylamide)-Grafted Surfaces. <i>Langmuir</i> , 1998, 14, 4650-4656.	1.6	30
50	A multiliquid approach to the surface free energy determination of flame-treated surfaces of rubber-toughened polypropylene. <i>Journal of Adhesion Science and Technology</i> , 1998, 12, 1141-1180.	1.4	40
51	Analysis of dynamic contact angle on discoidal samples measured by the Wilhelmy method. <i>Journal of Adhesion Science and Technology</i> , 1998, 12, 197-224.	1.4	11
52	A comparative analysis of surface structure and surface tension of hybrid silica films. <i>Journal of Non-Crystalline Solids</i> , 1997, 209, 51-60.	1.5	32
53	Some Reflections on Acid-Base Solid Surface Free Energy Theories. <i>Journal of Colloid and Interface Science</i> , 1997, 195, 121-136.	5.0	331
54	Thermomechanical behaviour of interfacial region in carbon fibre/epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 1996, 27, 1067-1074.	3.8	42

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55	Polymeric membranes for hybrid liver support devices: The effect of membrane surface wettability on hepatocyte viability and functions. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1996, 7, 1017-1027.	1.9	32
56	Contact angle measurements on samples with dissimilar faces by Wilhelmy microbalance. <i>Journal of Adhesion Science and Technology</i> , 1994, 8, 1453-1458.	1.4	8
57	Air-plasma treated polyethylene fibres: effect of time and temperature ageing on fibre surface properties and on fibre-matrix adhesion. <i>Journal of Materials Science</i> , 1994, 29, 3919-3925.	1.7	39
58	In situ polymerization of functional monomers in rubbers: 1. Modification of silicone rubbers by a poly(ester thioether amine) based on piperazine. <i>Polymer</i> , 1994, 35, 5571-5576.	1.8	4
59	Role of functional-group position in determining the interaction between structure-making and structure-breaking solutes. A microcalorimetric study of the interactions in aqueous solutions between positional isomers of alkan-m-ols and urea or biuret. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 3061.	1.7	6
60	Role of hydrophilic domains in determining the strength of hydrophobic interactions. A calorimetric study of the cross interactions in aqueous solutions of alkane-m,n-diols at 298.15 K. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 2667-2671.	1.7	18
61	Isothermal diffusion in a peculiar ternary system: the microemulsion AOTâ€“waterâ€“heptane. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 61-63.	1.7	15
62	Diffusion and double diffusive convection in the isothermal BaCl ₂ ?KCl?H ₂ O system at 25ÿ½C. <i>Journal of Solution Chemistry</i> , 1992, 21, 623-634.	0.6	2
63	A model for the interaction between hydrophilic and hydrophobic solutes - aqueous solutions containing biuret or urea and hydroxylated substances. <i>Thermochimica Acta</i> , 1992, 206, 43-54.	1.2	25
64	Diffusion in microemulsion systems. <i>Journal of Colloid and Interface Science</i> , 1992, 148, 72-79.	5.0	10
65	Free diffusion data in some polymer-solvent systems at 20Â°C. <i>Journal of Molecular Liquids</i> , 1991, 50, 187-196.	2.3	7
66	Non ideality of free diffusion boundaries. <i>Journal of Solution Chemistry</i> , 1991, 20, 271-291.	0.6	4
67	Stacking equilibria of proflavine in various solutions.. <i>Journal of Molecular Liquids</i> , 1990, 45, 201-211.	2.3	1
68	Diffusion, viscosity, and refractivity data on the system dimethylformamide-water at 20 and 40.degree.C. <i>Journal of Chemical & Engineering Data</i> , 1986, 31, 37-40.	1.0	45
69	Instabilities in free diffusion boundaries of NaCl-sucrose-H ₂ O solution at 25ÿ½C. <i>Journal of Solution Chemistry</i> , 1986, 15, 811-826.	0.6	16
70	Gravitational instabilities in free diffusion boundaries. <i>Journal of Solution Chemistry</i> , 1984, 13, 549-562.	0.6	26
71	Etero - association in ionic dye solutions. <i>Advances in Molecular Relaxation and Interaction Processes</i> , 1981, 21, 189-195.	0.6	0
72	Nuclear magnetic resonance studies of aqueous solutions of alkylureas: Proton and carbon-13 chemical shifts. <i>Journal of Solution Chemistry</i> , 1977, 6, 117-127.	0.6	14