## Raphaël R Plasson

List of Publications by Year in descending order

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361413 454955 33 1,406 20 30 citations g-index h-index papers 36 36 36 1379 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Programming an <i>in vitro</i> DNA oscillator using a molecular networking strategy. Molecular Systems Biology, 2011, 7, 466.	7.2	236
2	Emergence of homochirality in far-from-equilibrium systems: Mechanisms and role in prebiotic chemistry. Chirality, 2007, 19, 589-600.	2.6	163
3	Pathways for the formation and evolution of peptides in prebiotic environments. Chemical Society Reviews, 2012, 41, 5416.	38.1	163
4	Recycling Frank: Spontaneous emergence of homochirality in noncatalytic systems. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16733-16738.	7.1	126
5	The Pencil Code, a modular MPI code for partial differential equations and particles: multipurpose and multiuser-maintained. Journal of Open Source Software, 2021, 6, 2807.	4.6	92
6	Autocatalyses. Journal of Physical Chemistry A, 2011, 115, 8073-8085.	2.5	80
7	Prebiotic synthesis of sequential peptides on the Hadean beach by a molecular engine working with nitrogen oxides as energy sources. Polymer International, 2002, 51, 661-665.	3.1	66
8	2â€Hydroxyazobenzenes to Tailor pH Pulses and Oscillations with Light. Chemistry - A European Journal, 2010, 16, 8822-8831.	3.3	46
9	The inclusion complex of rosmarinic acid into beta-cyclodextrin: A thermodynamic and structural analysis by NMR and capillary electrophoresis. Food Chemistry, 2016, 208, 258-263.	8.2	40
10	5(4 <i>H</i> )â€Oxazolones as Intermediates in the Carbodiimide―and Cyanamideâ€Promoted Peptide Activations in Aqueous Solution. Angewandte Chemie - International Edition, 2013, 52, 611-614.	13.8	36
11	Programming an <i>in vitro</i> DNA oscillator using a molecular networking strategy. Molecular Systems Biology, 2011, 7, .	7.2	35
12	Dynamic Co-evolution of Peptides and Chemical Energetics, a Gateway to the Emergence of Homochirality and the Catalytic Activity of Peptides. Origins of Life and Evolution of Biospheres, 2004, 34, 35-55.	1.9	33
13	Energetic and Entropic Analysis of Mirror Symmetry Breaking Processes in a Recycled Microreversible Chemical System. Journal of Physical Chemistry B, 2009, 113, 3477-3490.	2.6	29
14	Kinetic study of the polymerization of α-amino acid N-carboxyanhydrides in aqueous solution using capillary electrophoresis. Journal of Chromatography A, 2002, 952, 239-248.	3.7	28
15	Energy propagation throughout chemical networks. Chemical Communications, 2014, 50, 6189-6195.	4.1	26
16	Homochirality and the Need for Energy. Origins of Life and Evolution of Biospheres, 2010, 40, 93-110.	1.9	24
17	Autocatalysis: At the Root of Self-Replication. Artificial Life, 2011, 17, 219-236.	1.3	24
18	Comment on "Re-Examination of Reversibility in Reaction Models for the Spontaneous Emergence of Homochirality― Journal of Physical Chemistry B, 2008, 112, 9550-9552.	2.6	23

#	Article	IF	CITATIONS
19	Determination of Homopolypeptide Conformational Changes by the Modeling of Electrophoretic Mobilities. Analytical Chemistry, 2005, 77, 6047-6054.	6.5	22
20	Determination and Modeling of Peptide pKaby Capillary Zone Electrophoresis. Analytical Chemistry, 2006, 78, 5394-5402.	6.5	22
21	An Experimental Investigation of the Evolution of Chirality in a Potential Dynamic Peptide System: <i>N</i> -Terminal Epimerization and Degradation into Diketopiperazine. Astrobiology, 2010, 10, 651-662.	3.0	21
22	Three-Dimensional Description of the Spontaneous Onset of Homochirality on the Surface of a Conglomerate Crystal Phase. Journal of Physical Chemistry B, 2006, 110, 8481-8487.	2.6	17
23	Energy Propagation Through a Protometabolism Leading to the Local Emergence of Singular Stationary Concentration Profiles. Chemistry - A European Journal, 2012, 18, 14375-14383.	3.3	17
24	Determination of synthetic polypeptide conformations and molecular geometrical parameters by nonaqueous CE. Electrophoresis, 2007, 28, 3617-3624.	2.4	10
25	Encapsulation of phenolic acids into cyclodextrins: A global statistical analysis of the effects of pH, temperature and concentrations on binding constants measured by ACE methods. Electrophoresis, 2022, 43, 2290-2301.	2.4	6
26	Experimental evidence and theoretical analysis for the chiral symmetry breaking in the growth front of conglomerate crystal phase of $1,1[\sup \hat{E}^1]$ -binaphthyl. Chaos, 2006, 16, 037116.	2.5	4
27	Reactivity of Alanylalanine Diastereoisomers in Neutral and Acid Aqueous Solutions: a Versatile Stereoselectivity. Origins of Life and Evolution of Biospheres, 2011, 41, 413-435.	1.9	4
28	A chemically encoded timer for dual molecular delivery at tailored ranges and concentrations. Chemical Communications, 2018, 54, 6396-6399.	4.1	3
29	Determination and Modeling of Peptide pKaby Capillary Zone Electrophoresis. Analytical Chemistry, 2007, 79, 3020-3020.	6.5	2
30	Homochirality as Fixed Point of Prebiotic Chemistry. , 2004, , 478-483.		0
31	Molecular Origins of Life: Homochirality as a Consequence of the Dynamic Co-Emergence and Co-Evolution of Peptides and Chemical Energetics. , 2004, , 49-64.		0
32	Self-Replication., 2014,, 1-4.		0
33	Self-Replication., 2015,, 2242-2245.		0