Victor Norris

List of Publications by Year
in descending order

118 papers	2,770 citations	201385 27 h-index	223531 46 g-index
200 all docs	200 docs citations	200 times ranked	3007 citing authors

#	Article	IF	Citations
1	Synthetic, Switchable Enzymes. Journal of Molecular Microbiology and Biotechnology, 2017, 27, 117-127.	1.0	419
2	Lipid composition of membranes ofEscherichia coli by liquid chromatography/tandem mass spectrometry using negative electrospray ionization. Rapid Communications in Mass Spectrometry, 2007, 21, 1721-1728.	0.7	142
3	The universal stress protein, UspA, of Escherichia coli is phosphorylated in response to stasis. Journal of Molecular Biology, 1997, 274, 318-324.	2.0	94
4	Compositional complementarity and prebiotic ecology in the origin of life. BioEssays, 2006, 28, 399-412.	1.2	93
5	Hypothesis: chromosome separation in Escherichia coli involves autocatalytic gene expression, transertion and membrane-domain formation. Molecular Microbiology, 1995, 16, 1051-1057.	1.2	85
6	Functional Taxonomy of Bacterial Hyperstructures. Microbiology and Molecular Biology Reviews, 2007, 71, 230-253.	2.9	79
7	Autocatalytic Gene Expression OccursviaTransertion and Membrane Domain Formation and Underlies Differentiation in Bacteria: A Model. Journal of Molecular Biology, 1995, 253, 739-748.	2.0	65
8	Chromosome separation and segregation in dinoflagellates andbacteria may depend on liquid crystalline states. Biochimie, 2001, 83, 187-192.	1.3	63
9	Toward a Hyperstructure Taxonomy. Annual Review of Microbiology, 2007, 61, 309-329.	2.9	63
10	Tyrosine phosphorylation in Escherichia coli. Journal of Molecular Biology, 1998, 279, 1045-1051.	2.0	60
11	Hypothesis: Bacteria Control Host Appetites. Journal of Bacteriology, 2013, 195, 411-416.	1.0	58
12	The Escherichia coli enzoskeleton. Molecular Microbiology, 1996, 19, 197-204.	1.2	57
13	Reticulated hyaluronan hydrogels: a model for examining cancer cell invasion in 3D. Matrix Biology, 2004, 23, 183-193.	1.5	56
14	The membrane: transertion as an organizing principle in membrane heterogeneity. Frontiers in Microbiology, 2015, 6, 572.	1.5	52
15	Identification and relative quantification of fatty acids in <i>Escherichia coli</i> membranes by gas chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 3229-3233.	0.7	49
16	Plant sensitivity to low intensity 105 GHz electromagnetic radiation. Bioelectromagnetics, 2004, 25, 403-407.	0.9	46
17	A strand-specific model for chromosome segregation in bacteria. Molecular Microbiology, 2003, 49, 895-903.	1.2	44
18	Phospholipid domains determine the spatial organization of the Escherichia coli cell cycle: the membrane tectonics model. Journal of Theoretical Biology, 1992, 154, 91-107.	0.8	43

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19	Ion condensation and signal transduction. BioEssays, 2004, 26, 549-557.	1.2	40
20	Restriction map of Tn7. Plasmid, 1983, 10, 96-99.	0.4	38
21	Hypothesis: Hyperstructures regulate bacterial structure and the cell cycle. Biochimie, 1999, 81, 915-920.	1.3	37
22	Do bacteria sing? Sonic intercellular communication between bacteria may reflect electromagnetic intracellular communication involving coherent collective vibrational modes that could integrate enzyme activities and gene expression. Molecular Microbiology, 1997, 24, 879-880.	1.2	36
23	SIMS STUDY OF THE CALCIUM-DEPRIVATION STEP RELATED TO EPIDERMAL MERISTEM PRODUCTION INDUCED IN FLAX BY COLD SHOCK OR RADIATION FROM A GSM TELEPHONE. Instrumentation Science and Technology, 2002, 20, 611-623.	0.8	36
24	A hypothesis to explain division site selection inEscherichia coliby combining nucleoid occlusion and Min. FEBS Letters, 2004, 561, 3-10.	1.3	34
25	Hypothesis: Membrane domains and hyperstructures control bacterial division. Biochimie, 2001, 83, 91-97.	1.3	31
26	A stochastic automaton shows how enzyme assemblies may contribute to metabolic efficiency. BMC Systems Biology, 2008, 2, 27.	3.0	30
27	Phospholipid flip-out controls the cell cycle of Escherichia coli. Journal of Theoretical Biology, 1989, 139, 117-128.	0.8	29
28	Division-Based, Growth Rate Diversity in Bacteria. Frontiers in Microbiology, 2018, 9, 849.	1.5	29
29	Sensor potency of the moonlighting enzyme-decorated cytoskeleton: the cytoskeleton as a metabolic sensor. BMC Biochemistry, 2013, 14, 3.	4.4	28
30	Long-distance transport, storage and recall of morphogenetic information in plants. The existence of a sort of primitive plant â€˜memoryâ€™. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 2000, 323, 81-91.	0.8	27
31	Combed Single DNA Molecules Imaged by Secondary Ion Mass Spectrometry. Analytical Chemistry, 2011, 83, 6940-6947.	3.2	27
32	DNA replication in Escherichia coli is initiated by membrane detachment of oriC. Journal of Molecular Biology, 1990, 215, 67-71.	2.0	26
33	Metabolite-induced metabolons: the activation of transporter-enzyme complexes by substrate binding. Molecular Microbiology, 1999, 31, 1592-1595.	1.2	26
34	Membrane heterogeneity created by transertion is a global regulator in bacteria. Current Opinion in Microbiology, 2012, 15, 724-730.	2.3	26
35	Memory Processes in the Response of Plants to Environmental Signals. Plant Signaling and Behavior, 2006, 1, 9-14.	1.2	25
36	Secretion of MMP-2 and MMP-9 induced by VEGF autocrine loop correlates with clinical features in childhood acute lymphoblastic leukemia. Leukemia Research, 2009, 33, 407-417.	0.4	24

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37	Hypothesis: hyperstructures regulate initiation in Escherichia coli and other bacteria. Biochimie, 2002, 84, 341-347.	1.3	22
38	Steady-state kinetic behaviour of functioning-dependent structures. FEBS Journal, 2006, 273, 4287-4299.	2.2	22
39	Lipid domain boundaries as prebiotic catalysts of peptide bond formation. Journal of Theoretical Biology, 2007, 246, 176-185.	0.8	21
40	Hypothesis: transcriptional sensing and membrane-domain formation initiate chromosome replication in Escherichia coli. Molecular Microbiology, 1995, 15, 985-987.	1.2	20
41	Question 7: The First Units of Life Were Not Simple Cells. Origins of Life and Evolution of Biospheres, 2007, 37, 429-432.	0.8	20
42	Lipoplex nanostructures reveal a general self-organization of nucleic acids. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 385-394.	1.1	20
43	Effects of glucocorticoids and mineralocorticoids on proliferation and maturation of human peripheral blood stem cells. , 1999, 62, 65-73.		18
44	Inner membrane lipids of Escherichia coli form domains. Colloids and Surfaces B: Biointerfaces, 2008, 63, 306-310.	2.5	18
45	Molecular complementarity between simple, universal molecules and ions limited phenotype space in the precursors of cells. Biology Direct, 2015, 10, 28.	1.9	18
46	Method for Macromolecular Colocalization Using Atomic Recombination in Dynamic SIMS. Journal of Physical Chemistry B, 2008, 112, 5534-5546.	1.2	17
47	Multiple links connect central carbon metabolism to DNA replication initiation and elongation in<i>Bacillus subtilis</i>. DNA Research, 2018, 25, 641-653.	1.5	17
48	Hyperstructures, genome analysis and I-cells. Acta Biotheoretica, 2002, 50, 357-373.	0.7	16
49	Challenges in Discovering Drugs That Target the Proteinâ€“Protein Interactions of Disordered Proteins. International Journal of Molecular Sciences, 2022, 23, 1550.	1.8	16
50	Relationships between proteasomes and RNA. Molecular Biology Reports, 1995, 21, 43-47.	1.0	15
51	Chromosome Replication in Escherichia coli: Life on the Scales. Life, 2012, 2, 286-312.	1.1	15
52	The mechanical advantages of DNA. BioSystems, 1999, 49, 71-78.	0.9	14
53	A Logical (Discrete) Formulation for the Storage and Recall of Environmental Signals in Plants. Plant Biology, 2004, 6, 590-597.	1.8	14
54	How did Metabolism and Genetic Replication Get Married?. Origins of Life and Evolution of Biospheres, 2012, 42, 487-495.	0.8	13

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55	Introduction to the concept of functioning-dependent structures in living cells. Comptes Rendus - Biologies, 2004, 327, 1017-1024.	0.1	12
56	Hypercomplexity. Acta Biotheoretica, 2005, 53, 313-330.	0.7	12
57	Speculations on the initiation of chromosome replication in Escherichia coli: The dualism hypothesis. Medical Hypotheses, 2011, 76, 706-716.	0.8	12
58	Computing with bacterial constituents, cells and populations: from bioputing to bactoputing. Theory in Biosciences, 2011, 130, 211-228.	0.6	12
59	Hypothesis: Chemotaxis in <i>Escherichia coli</i> Results from Hyperstructure Dynamics. Journal of Molecular Microbiology and Biotechnology, 2005, 10, 1-14.	1.0	11
60	Pharmacological Evidence for Calcium Involvement in the Long-Term Processing of Abiotic Stimuli in Plants. Plant Signaling and Behavior, 2007, 2, 212-220.	1.2	11
61	The Eukaryotic Cell Originated in the Integration and Redistribution of Hyperstructures from Communities of Prokaryotic Cells Based on Molecular Complementarity. International Journal of Molecular Sciences, 2009, 10, 2611-2632.	1.8	11
62	Memorization of Abiotic Stimuli in Plants: A Complex Role for Calcium. Signaling and Communication in Plants, 2009, , 267-283.	0.5	11
63	Modelling Biological Systems with Competitive Coherence. Advances in Artificial Neural Systems, 2012, 2012, 1-20.	1.0	11
64	Plasmids as scribbling pads for operon formation and propagation. Research in Microbiology, 2013, 164, 779-787.	1.0	11
65	Hypothesis: Poly-(R)-3-hydroxybutyrate is a major factor in intraocular pressure. Medical Hypotheses, 2009, 73, 398-401.	0.8	10
66	The Role of Calcium in the Recall of Stored Morphogenetic Information by Plants. Acta Biotheoretica, 2012, 60, 83-97.	0.7	10
67	Emergence of a â€œCyclosomeâ€•in a Primitive Network Capable of Building â€œInfiniteâ€•Proteins. Life, 2019, 9, 51.	1.1	10
68	Modelling Escherichia coli. The concept of competitive coherence. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 1998, 321, 777-787.	0.8	9
69	Hypothesis: A Phospholipid Translocase Couples Lateral and Transverse Bilayer Asymmetries in Dividing Bacteria. Journal of Molecular Biology, 2002, 318, 455-462.	2.0	9
70	Why do bacteria divide?. Frontiers in Microbiology, 2015, 06, 322.	1.5	9
71	Division in bacteria is determined by hyperstructure dynamics and membrane domains. Journal of Biological Physics and Chemistry, 2001, 01, 29-37.	0.1	9
72	The correlation between architecture and mRNA abundance in the genetic regulatory network of Escherichia coli. BMC Systems Biology, 2007, 1, 30.	3.0	8

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73	New approaches to the problem of generating coherent, reproducible phenotypes. Theory in Biosciences, 2014, 133, 47-61.	0.6	8
74	Biological processes in organised media. Comptes Rendus - Biologies, 2003, 326, 149-159.	0.1	7
75	A hyperstructure approach to mitochondria. Molecular Microbiology, 2004, 53, 41-53.	1.2	7
76	Does the Semiconservative Nature of DNA Replication Facilitate Coherent Phenotypic Diversity?. Journal of Bacteriology, 2019, 201, .	1.0	7
77	Sequestration of Origins of Chromosome Replication in Escherichia coli by Lipid Compartments: The Pocket Hypothesis. Journal of Theoretical Biology, 1993, 164, 239-244.	0.8	6
78	Characterization of eukaryotic-like kinase activity inEscherichia coliusing the gene-protein database. FEMS Microbiology Letters, 1995, 127, 133-138.	0.7	6
79	Hypotheses and the regulation of the bacterial cell cycle. Molecular Microbiology, 2006, 15, 785-787.	1.2	6
80	Behaviour of bacterial division protein FtsZ under a monolayer with phospholipid domains. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2812-2821.	1.4	6
81	Hyperstructure interactions influence the virulence of the type 3 secretion system in yersiniae and other bacteria. Applied Microbiology and Biotechnology, 2012, 96, 23-36.	1.7	6
82	Chemical Microscopy of Biological Samples by Dynamic Mode Secondary Ion Mass Spectrometry (SIMS). Methods in Molecular Biology, 2009, 522, 163-173.	0.4	6
83	Elements of a unifying theory of biology. Acta Biotheoretica, 1996, 44, 209-218.	0.7	5
84	Submolecular Structures in Dipalmytoylphosphatidylethanolamine Langmuirâ€“Blodgett Films Observed by Scanning Force Microscopy. Journal of Colloid and Interface Science, 2000, 227, 585-587.	5.0	5
85	Networks as constrained thermodynamic systems. Comptes Rendus - Biologies, 2003, 326, 65-74.	0.1	5
86	A Defective Viral Particle Approach to COVID-19. Cells, 2022, 11, 302.	1.8	5
87	Modelling autocatalytic networks with artificial microbiology. Comptes Rendus - Biologies, 2003, 326, 459-466.	0.1	4
88	Steady-state kinetic behaviour of two- or n-enzyme systems made of free sequential enzymes involved in a metabolic pathway. Comptes Rendus - Biologies, 2006, 329, 963-966.	0.1	4
89	Modeling of sensing potency of cytoskeletal systems decorated with metabolic enzymes. Journal of Theoretical Biology, 2015, 365, 190-196.	0.8	4
90	Generation of Bacterial Diversity by Segregation of DNA Strands. Frontiers in Microbiology, 2021, 12, 550856.	1.5	4

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91	The Positive Feedback Advantages of Combining Buying and Investing. Theoretical Economics Letters, 2015, 05, 659-669.	0.2	4
92	Combining combing and secondary ion mass spectrometry to study DNA on chips using 13C and 15N labeling. F1000Research, 2016, 5, 1437.	0.8	4
93	Antiviruses as Therapeutic Agents: A Mathematical Analysis of Their Potential. Journal of Theoretical Biology, 1997, 184, 111-116.	0.8	3
94	Supracriticality and the prion. Molecular Microbiology, 2002, 28, 859-860.	1.2	3
95	On the utility of scale-free networks. BioEssays, 2006, 28, 563-564.	1.2	3
96	Hybolites: Novel Therapeutic Tools for Targeting Hyperstructures in Bacteria. Recent Patents on Anti-infective Drug Discovery, 2009, 4, 90-95.	0.5	3
97	Scientific Globish: clear enough is good enough. Trends in Microbiology, 2013, 21, 503-504.	3.5	3
98	What Properties of Life Are Universal? Substance-Free, Scale-free Life. Origins of Life and Evolution of Biospheres, 2014, 44, 363-367.	0.8	3
99	Hypothesis: nucleoid-associated proteins segregate with a parental DNA strand to generate coherent phenotypic diversity. Theory in Biosciences, 2021, 140, 17-25.	0.6	3
100	Role of Multifunctional Cytoskeletal Filaments in Coronaviridae Infections: Therapeutic Opportunities for COVID-19 in a Nutshell. Cells, 2021, 10, 1818.	1.8	3
101	Modelling Bacterial Hyperstructures with Cellular Automata. , 2006, , 147-156.		3
102	A mechanical approach to the distribution and orientation of genes on genetic maps. Molecular Microbiology, 1998, 27, 236-237.	1.2	2
103	The Mimic Chain Reaction. Journal of Molecular Microbiology and Biotechnology, 2012, 22, 335-343.	1.0	2
104	Deformations in the Cytoplasmic Membrane of Escherichia coli Direct the Repair of Peptidoglycan. , 1993, , 375-384.		2
105	Designer antiviruses for HIV. Trends in Microbiology, 1993, 1, 355-357.	3.5	1
106	DNA Movies and Panspermia. Life, 2011, 1, 9-18.	1.1	1
107	The theater management model of plant memory. Plant Signaling and Behavior, 2015, 10, e976157.	1.2	1
108	Hybolites Revisited. Recent Patents on Anti-infective Drug Discovery, 2016, 11, 16-31.	0.5	1

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109	Plant Accommodation to Their Environment: The Role of Specific Forms of Memory. Signaling and Communication in Plants, 2018, , 131-137.	0.5	1
110	Successive Paradigm Shifts in the Bacterial Cell Cycle and Related Subjects. Life, 2019, 9, 27.	1.1	1
111	Competitive Coherence Generates Qualia in Bacteria and Other Living Systems. Biology, 2021, 10, 1034.	1.3	1
112	HypothÃ¨se : le modÃ¨le du lieu de rencontre pour la maladie des prions. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 1997, 320, 393-398.	0.8	0
113	Rapid growth mutants of Escherichia coli. Acta Biotheoretica, 1998, 46, 161-166.	0.7	0
114	Quasi-periodic behaviour in a model for the lithium-induced, electrical oscillations of frog skin. Comptes Rendus - Biologies, 2002, 325, 917-925.	0.1	0
115	Relationship between Fork Progression and Initiation of Chromosome Replication in E. coli. , 2011, , .		0
116	A pension fund for European scientists. EMBO Reports, 2017, 18, 349-350.	2.0	0
117	Moonlighting Function of the Tubulin Cytoskeleton: Macromolecular Architectures in the Cytoplasm. Springer Series in Biophysics, 2014, , 165-178.	0.4	0
118	My Recollections of Bob Pritchard 1986â€“96. , 2017, , 127-130.		0