

# Vincent Breton

## List of Publications by Year in descending order

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96  
papers

3,700  
citations

172443

29  
h-index

128286

60  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2774  
citing authors

#	ARTICLE	IF	CITATIONS
1	The substrate, a key factor or not, to explain the species diversity of diatom communities in mineral springs. Botany Letters, 2022, 169, 155-165.	1.4	3
2	Chamaepinnularia salina (Bacillariophyta), a new diatom species from French mineral springs (Massif Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0.3	0.3	2
3	Radiation exposure of microorganisms living in radioactive mineral springs. EPJ Web of Conferences, 2022, 261, 04001.	0.3	0
4	<i>Fontina</i> Gen. nov. (<i>Bacillariophyta</i>): a new diatom genus from a thermo-mineral spring of the French Massif Central (France). Diatom Research, 2022, 37, 51-61.	1.2	3
5	A Geant4-DNA Evaluation of Radiation-Induced DNA Damage on a Human Fibroblast. Cancers, 2021, 13, 4940.	3.7	13
6	A simulation-driven spectrometric method to determine $\hat{I}_{\pm}$ particle attenuation in air filters. Radiation Measurements, 2021, 150, 106684.	1.4	0
7	Highlighting the impact of social relationships on the propagation of respiratory viruses using percolation theory. Scientific Reports, 2021, 11, 24326.	3.3	2
8	The effect of natural radioactivity on diatom communities in mineral springs. Botany Letters, 2020, 167, 95-113.	1.4	15
9	Radon Activity in Volcanic Gases of Mt. Etna by Passive Dosimetry. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019149.	3.4	10
10	Hospital and Population-Based Evidence for COVID-19 Early Circulation in the East of France. International Journal of Environmental Research and Public Health, 2020, 17, 7175.	2.6	19
11	From Sensor to Cloud: An IoT Network of Radon Outdoor Probes to Monitor Active Volcanoes. Sensors, 2020, 20, 2755.	3.8	21
12	Bedrock radioactivity influences the rate and spectrum of mutation. ELife, 2020, 9, .	6.0	8
13	Reducing the ionizing radiation background does not significantly affect the evolution of Escherichia coli populations over 500 generations. Scientific Reports, 2019, 9, 14891.	3.3	7
14	Action-orientated research and framework: insights from the French long-term social-ecological research network. Ecology and Society, 2019, 24, .	2.3	34
15	Evaluation of early radiation DNA damage in a fractal cell nucleus model using Geant4-DNA. Physica Medica, 2019, 62, 152-157.	0.7	54
16	Mechanistic DNA damage simulations in Geant4-DNA part 1: A parameter study in a simplified geometry. Physica Medica, 2018, 48, 135-145.	0.7	82
17	Mechanistic DNA damage simulations in Geant4-DNA Part 2: Electron and proton damage in a bacterial cell. Physica Medica, 2018, 48, 146-155.	0.7	63
18	Specific Targeting of Plant and Apicomplexa Parasite Tubulin through Differential Screening Using In Silico and Assay-Based Approaches. International Journal of Molecular Sciences, 2018, 19, 3085.	4.1	10

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19	Understanding low radiation background biology through controlled evolution experiments. <i>Evolutionary Applications</i> , 2017, 10, 658-666.	3.1	27
20	Towards effective scheduling policies for many-task applications: Practice and experience based on HTCaaS. <i>Concurrency Computation Practice and Experience</i> , 2017, 29, e4242.	2.2	1
21	Background study of absorbed dose in biological experiments at the Modane Underground Laboratory. <i>EPJ Web of Conferences</i> , 2016, 124, 00006.	0.3	12
22	Simulating the Impact of the Natural Radiation Background on Bacterial Systems: Implications for Very Low Radiation Biological Experiments. <i>PLoS ONE</i> , 2016, 11, e0166364.	2.5	18
23	A Comparative Analysis of Scheduling Mechanisms for Virtual Screening Workflow in a Shared Resource Environment. , 2015, , .		5
24	Global Initiative for Sentinel e-Health Network on Grid (GINSENG): Medical Data Integration and Semantic Developments for Epidemiology. , 2014, , .		0
25	Stretch optimization for virtual screening on multi-user pilot-agent platforms on grid/cloud. , 2013, , .		1
26	Scheduling of virtual screening application on multi-user pilot-agent platform on grid/cloud to optimize the stretch. , 2013, , .		0
27	Discovery of novel inhibitors for human intestinal maltase: virtual screening in a WISDOM environment and in vitro evaluation. <i>Biotechnology Letters</i> , 2011, 33, 2185-2191.	2.2	8
28	Virtual screening identification of novel severe acute respiratory syndrome 3C-like protease inhibitors and in vitro confirmation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 3088-3091.	2.2	35
29	In silico Discovery of Chemotherapeutic Agents. , 2010, , 279-304.		0
30	The EMBRACE web service collection. <i>Nucleic Acids Research</i> , 2010, 38, W683-W688.	14.5	40
31	A grid-enabled problem solving environment for in-silico screening in drug discovery. , 2010, , .		0
32	In Vitro Test for Potential Inhibitors of Plasmeprin II and IV as Anti-malarial Agents. , 2010, , 67-81.		0
33	New Advanced Technologies to Provide Decentralised and Secure Access to Medical Records: Case Studies in Oncology. <i>Cancer Informatics</i> , 2009, 7, CIN.S965.	1.9	3
34	SHARE road map for HealthGrids: Methodology. <i>International Journal of Medical Informatics</i> , 2009, 78, S3-S12.	3.3	3
35	Design and Discovery of Plasmeprinâ€¦II Inhibitors Using an Automated Workflow on Largeâ€¦Scale Grids. <i>ChemMedChem</i> , 2009, 4, 1164-1173.	3.2	41
36	Performance analysis and optimization of AMGA for the largeâ€¦scale virtual screening. <i>Software - Practice and Experience</i> , 2009, 39, 1055-1072.	3.6	1

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37	PDB_REDO: automated re-refinement of X-ray structure models in the PDB. Journal of Applied Crystallography, 2009, 42, 376-384.	4.5	204
38	WISDOM-II: Screening against multiple targets implicated in malaria using computational grid infrastructures. Malaria Journal, 2009, 8, 88.	2.3	29
39	Innovative In Silico Approaches to Address Avian Flu Using Grid Technology. Infectious Disorders - Drug Targets, 2009, 9, 358-365.	0.8	7
40	Gestion d'œcentralisœe des documents mœdicaux des patients. Un systœme de recherche et d'accœs aux donnœes. Document Numerique, 2009, 12, 23-35.	0.2	0
41	Grid-enabled sentinel network for cancer surveillance. Studies in Health Technology and Informatics, 2009, 147, 289-94.	0.3	1
42	Grid-enabled Virtual Screening Against Malaria. Journal of Grid Computing, 2008, 6, 29-43.	3.9	56
43	Une œvaluation quantitative de la valeur œcologique des œrabraies de versant dans les Alpes franœsaises. Annals of Forest Science, 2008, 65, 713-713.	2.0	9
44	Grid-Added Value to Address Malaria. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 173-181.	3.2	8
45	DrugScreener-G: Towards an Integrated Environment for Grid-Enabled Large-Scale Virtual Screening and Drug Discovery. , 2008, , .		1
46	Improvement of Task Retrieval Performance Using AMGA in a Large-Scale Virtual Screening. , 2008, , .		5
47	Rigorous Distribution of Stochastic Simulations Using the DistMe Toolkit. IEEE Transactions on Nuclear Science, 2008, 55, 595-603.	2.0	15
48	Impact of the choice of functional regions in targeted fully 3D SPECT reconstruction. , 2007, , .		1
49	Large Scale Deployment of Molecular Docking Application on Computational Grid infrastructures for Combating Malaria. , 2007, , .		5
50	Guest Editorial: Special Section on Grid, Web Services, Software Agents, and Ontology Applications for Life Sciences. IEEE Transactions on Nanobioscience, 2007, 6, 101-103.	3.3	5
51	Replication and Update of Molecular Biology Databases. IEEE Transactions on Nanobioscience, 2007, 6, 131-135.	3.3	1
52	Simulation Monte Carlo des dœpœts de doses en radiothœrapie curiethœrapie et dœploiement sur grille de calcul. Radioprotection, 2007, 42, 43-64.	1.0	0
53	Virtual screening on large scale grids. Parallel Computing, 2007, 33, 289-301.	2.1	27
54	Design of New Plasmepsin Inhibitors:œ A Virtual High Throughput Screening Approach on the EGEE Grid. Journal of Chemical Information and Modeling, 2007, 47, 1818-1828.	5.4	46

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55	Enzymatic synthesis and characterization of arbutin glucosides using glucansucrase from <i>Leuconostoc mesenteroides</i> B-1299CB. <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 559-567.	3.6	34
56	Special section: Life science grids for biomedicine and bioinformatics. <i>Future Generation Computer Systems</i> , 2007, 23, 367-370.	7.5	12
57	Grid-Enabled High Throughput Virtual Screening. , 2007, , 45-59.		2
58	Grid enabled high throughput virtual screening against four different targets implicated in malaria. <i>Studies in Health Technology and Informatics</i> , 2007, 126, 47-54.	0.3	1
59	Roadmap for a European healthgrid. <i>Studies in Health Technology and Informatics</i> , 2007, 126, 154-63.	0.3	1
60	SHARE, from vision to road map: technical steps. <i>Studies in Health Technology and Informatics</i> , 2007, 129, 1149-53.	0.3	1
61	Integration and mining of malaria molecular, functional and pharmacological data: how far are we from a chemogenomic knowledge space?. <i>Malaria Journal</i> , 2006, 5, 110.	2.3	18
62	Targeted Fully 3D Monte Carlo Reconstruction in SPECT. , 2006, , .		5
63	Grid-Enabled High-Throughput In Silico Screening Against Influenza A Neuraminidase. <i>IEEE Transactions on Nanobioscience</i> , 2006, 5, 288-295.	3.3	35
64	Fully 3D Monte Carlo image reconstruction in SPECT using functional regions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 399-403.	1.6	21
65	Demonstration of in silico docking at a large scale on grid infrastructure. <i>Studies in Health Technology and Informatics</i> , 2006, 120, 155-7.	0.3	6
66	Grid Technology for Biomedical Applications. <i>Lecture Notes in Computer Science</i> , 2005, , 204-218.	1.3	12
67	The Healthgrid White Paper. <i>Studies in Health Technology and Informatics</i> , 2005, 112, 249-321.	0.3	9
68	Measurement of the Generalized Polarizabilities of the Proton in Virtual Compton Scattering at $Q^2=0.92$ and $1.76 \text{ GeV}^2$ . <i>Physical Review Letters</i> , 2004, 93, 122001.	7.8	33
69	PARALLELIZATION OF MONTE CARLO SIMULATIONS AND SUBMISSION TO A GRID ENVIRONMENT. <i>Parallel Processing Letters</i> , 2004, 14, 177-196.	0.6	41
70	Medical Images Simulation, Storage, and Processing on the European DataGrid Testbed. <i>Journal of Grid Computing</i> , 2004, 2, 387-400.	3.9	46
71	Monte Carlo simulation in PET and SPECT instrumentation using GATE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 527, 180-189.	1.6	80
72	Feasibility and value of fully 3D Monte Carlo reconstruction in single-photon emission computed tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 527, 195-200.	1.6	13

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73	Grid as a bioinformatic tool. <i>Parallel Computing</i> , 2004, 30, 1093-1107.	2.1	28
74	GATE: a Geant4-based simulation platform for PET and SPECT integrating movement and time management. <i>IEEE Transactions on Nuclear Science</i> , 2003, 50, 1516-1521.	2.0	176
75	Dynamics of the $^{16}\text{O}(e,e^{\prime}p)$ Reaction at High Missing Energies. <i>Physical Review Letters</i> , 2001, 86, 5670-5674.	7.8	18
76	Virtual compton scattering and polarizabilities. <i>Progress in Particle and Nuclear Physics</i> , 2000, 44, 371-389.	14.4	5
77	Dynamical Relativistic Effects in Quasielastic $1p$ -Shell Proton Knockout from $^{16}\text{O}$ . <i>Physical Review Letters</i> , 2000, 84, 3265-3269.	7.8	66
78	First Determination of Generalized Polarizabilities of the Proton by a Virtual Compton Scattering Experiment. <i>Physical Review Letters</i> , 2000, 85, 708-711.	7.8	63
79	Measurements of the Deuteron Elastic Structure Function $A(Q^2)$ for $0.7 \leq Q^2 \leq 6.0 (\text{GeV}/c)^2$ at Jefferson Laboratory. <i>Physical Review Letters</i> , 1999, 82, 1374-1378.	7.8	90
80	Dispersive effects from a comparison of electron and positron scattering from $^{12}\text{C}$ . <i>Physical Review C</i> , 1998, 57, 2107-2110.	2.9	3
81	Precision Determination of the Neutron Spin Structure Function $g_1^n$ . <i>Physical Review Letters</i> , 1997, 79, 26-30.	7.8	320
82	Measurement of the Proton and Deuteron Spin Structure Function $g_1$ in the Resonance Region. <i>Physical Review Letters</i> , 1997, 78, 815-819.	7.8	70
83	Requirements for a large solid angle detector for ELFE. <i>Nuclear Physics A</i> , 1997, 622, c157-c165.	1.5	0
84	La structure en spin longitudinal du nucléon. <i>Annales De Physique</i> , 1997, 22, 283-404.	0.2	0
85	Deep inelastic scattering of polarized electrons by polarized $^3\text{He}$ and the study of the neutron spin structure. <i>Physical Review D</i> , 1996, 54, 6620-6650.	4.7	251
86	Measurements of the Proton and Deuteron Spin Structure Function $g_2$ and Asymmetry $A_2$ . <i>Physical Review Letters</i> , 1996, 76, 587-591.	7.8	146
87	Precision Measurement of the Proton Spin Structure Function $g_1^p$ . <i>Physical Review Letters</i> , 1995, 74, 346-350.	7.8	305
88	Precision Measurement of the Deuteron Spin Structure Function $g_1^d$ . <i>Physical Review Letters</i> , 1995, 75, 25-28.	7.8	213
89	Shower counters for SLAC experiments E142/E143. <i>IEEE Transactions on Nuclear Science</i> , 1995, 42, 529-533.	2.0	4
90	$^3\text{H}$ and $^3\text{He}$ electromagnetic form factors. <i>Nuclear Physics A</i> , 1994, 579, 596-626.	1.5	108

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91	Determination of the neutron spin structure function. Physical Review Letters, 1993, 71, 959-962.	7.8	450
92	Isospin separation of three-nucleon form factors. Physical Review Letters, 1992, 69, 253-256.	7.8	24
93	$J/\psi$ electroproduction with electrons above 10 GeV. Nuclear Physics A, 1991, 532, 451-464.	1.5	2
94	High-accuracy comparison of electron and positron scattering from nuclei. Physical Review Letters, 1991, 66, 572-575.	7.8	19
95	Deployment of Grid Life Sciences Applications. , 0, , 199-223.		1
96	Population Based Survey of the COVID-19 Outbreak in the Haut-Rhin Department from January to April 2020. SSRN Electronic Journal, 0, , .	0.4	3