Vincent Breton

List of Publications by Year
in descending order

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96 papers	3,700 citations	172457 29 h-index	128289 60 g-index
102 all docs	102 docs citations	102 times ranked	2774 citing authors

#	Article	IF	Citations
1	Determination of the neutron spin structure function. Physical Review Letters, 1993, 71, 959-962.	7.8	450
2	Precision Determination of the Neutron Spin Structure Functiong1n. Physical Review Letters, 1997, 79, 26-30.	7.8	320
3	Precision Measurement of the Proton Spin Structure Functiong1p. Physical Review Letters, 1995, 74, 346-350.	7.8	305
4	Deep inelastic scattering of polarized electrons by polarizedHe3and the study of the neutron spin structure. Physical Review D, 1996, 54, 6620-6650.	4.7	251
5	Precision Measurement of the Deuteron Spin Structure Functiong1d. Physical Review Letters, 1995, 75, 25-28.	7.8	213
6	PDB_REDO: automated re-refinement of X-ray structure models in the PDB. Journal of Applied Crystallography, 2009, 42, 376-384.	4.5	204
7	GATE: a Geant4-based simulation platform for PET and SPECT integrating movement and time management. IEEE Transactions on Nuclear Science, 2003, 50, 1516-1521.	2.0	176
8	Measurements of the Proton and Deuteron Spin Structure Functiong2and AsymmetryA2. Physical Review Letters, 1996, 76, 587-591.	7.8	146
9	3H and 3He electromagnetic form factors. Nuclear Physics A, 1994, 579, 596-626.	1.5	108
10	Measurements of the Deuteron Elastic Structure FunctionA(Q2)for0.7â‰¤Q2â‰¤6.0(GeV/c)2at Jefferson Laboratory. Physical Review Letters, 1999, 82, 1374-1378.	7.8	90
11	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
12	Monte Carlo simulation in PET and SPECT instrumentation using GATE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 180-189.	1.6	80
13	Measurement of the Proton and Deuteron Spin Structure Functiong1in the Resonance Region. Physical Review Letters, 1997, 78, 815-819.	7.8	70
14	Dynamical Relativistic Effects in Quasielastic1p-Shell Proton Knockout fromO16. Physical Review Letters, 2000, 84, 3265-3269.	7.8	66
15	First Determination of Generalized Polarizabilities of the Proton by a Virtual Compton Scattering Experiment. Physical Review Letters, 2000, 85, 708-711.	7.8	63
16	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
17	Grid-enabled Virtual Screening Against Malaria. Journal of Grid Computing, 2008, 6, 29-43.	3.9	56
18	Evaluation of early radiation DNA damage in a fractal cell nucleus model using Geant4-DNA. Physica Medica, 2019, 62, 152-157.	0.7	54

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19	Medical Images Simulation, Storage, and Processing on the European DataGrid Testbed. Journal of Grid Computing, 2004, 2, 387-400.	3.9	46
20	Design of New Plasmepsin Inhibitors:â€‰ A Virtual High Throughput Screening Approach on the EGEE Grid. Journal of Chemical Information and Modeling, 2007, 47, 1818-1828.	5.4	46
21	PARALLELIZATION OF MONTE CARLO SIMULATIONS AND SUBMISSION TO A GRID ENVIRONMENT. Parallel Processing Letters, 2004, 14, 177-196.	0.6	41
22	Design and Discovery of Plasmepsinâ€…II Inhibitors Using an Automated Workflow on Largeâ€Scale Grids. ChemMedChem, 2009, 4, 1164-1173.	3.2	41
23	The EMBRACE web service collection. Nucleic Acids Research, 2010, 38, W683-W688.	14.5	40
24	Grid-Enabled High-Throughput In Silico Screening Against Influenza A Neuraminidase. IEEE Transactions on Nanobioscience, 2006, 5, 288-295.	3.3	35
25	Virtual screening identification of novel severe acute respiratory syndrome 3C-like protease inhibitors and in vitro confirmation. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3088-3091.	2.2	35
26	Enzymatic synthesis and characterization of arbutin glucosides using glucansucrase from Leuconostoc mesenteroides B-1299CB. Applied Microbiology and Biotechnology, 2007, 77, 559-567.	3.6	34
27	Action-orientated research and framework: insights from the French long-term social-ecological research network. Ecology and Society, 2019, 24, .	2.3	34
28	Measurement of the Generalized Polarizabilities of the Proton in Virtual Compton Scattering atQ2=0.92and1.76â€‰â€‰GeV2. Physical Review Letters, 2004, 93, 122001.	7.8	33
29	WISDOM-II: Screening against multiple targets implicated in malaria using computational grid infrastructures. Malaria Journal, 2009, 8, 88.	2.3	29
30	Grid as a bioinformatic tool. Parallel Computing, 2004, 30, 1093-1107.	2.1	28
31	Virtual screening on large scale grids. Parallel Computing, 2007, 33, 289-301.	2.1	27
32	Understanding low radiation background biology through controlled evolution experiments. Evolutionary Applications, 2017, 10, 658-666.	3.1	27
33	Isospin separation of three-nucleon form factors. Physical Review Letters, 1992, 69, 253-256.	7.8	24
34	Fully 3D Monte Carlo image reconstruction in SPECT using functional regions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 399-403.	1.6	21
35	From Sensor to Cloud: An IoT Network of Radon Outdoor Probes to Monitor Active Volcanoes. Sensors, 2020, 20, 2755.	3.8	21
36	High-accuracy comparison of electron and positron scattering from nuclei. Physical Review Letters, 1991, 66, 572-575.	7.8	19

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37	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
38	Dynamics of the16O(e,eâ€²p)Reaction at High Missing Energies. Physical Review Letters, 2001, 86, 5670-5674.	7.8	18
39	Integration and mining of malaria molecular, functional and pharmacological data: how far are we from a chemogenomic knowledge space?. Malaria Journal, 2006, 5, 110.	2.3	18
40	Simulating the Impact of the Natural Radiation Background on Bacterial Systems: Implications for Very Low Radiation Biological Experiments. PLoS ONE, 2016, 11, e0166364.	2.5	18
41	Rigorous Distribution of Stochastic Simulations Using the DistMe Toolkit. IEEE Transactions on Nuclear Science, 2008, 55, 595-603.	2.0	15
42	The effect of natural radioactivity on diatom communities in mineral springs. Botany Letters, 2020, 167, 95-113.	1.4	15
43	Feasibility and value of fully 3D Monte Carlo reconstruction in single-photon emission computed tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 195-200.	1.6	13
44	A Geant4-DNA Evaluation of Radiation-Induced DNA Damage on a Human Fibroblast. Cancers, 2021, 13, 4940.	3.7	13
45	Special section: Life science grids for biomedicine and bioinformatics. Future Generation Computer Systems, 2007, 23, 367-370.	7.5	12
46	Background study of absorbed dose in biological experiments at the Modane Underground Laboratory. EPJ Web of Conferences, 2016, 124, 00006.	0.3	12
47	Grid Technology for Biomedical Applications. Lecture Notes in Computer Science, 2005, , 204-218.	1.3	12
48	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
49	Radon Activity in Volcanic Gases of Mt. Etna by Passive Dosimetry. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019149.	3.4	10
50	Une Ã©valuation quantitative de la valeur Ã©cologique des Ã©rablaies de versant dans les Alpes franÃ§aises. Annals of Forest Science, 2008, 65, 713-713.	2.0	9
51	The Healthgrid White Paper. Studies in Health Technology and Informatics, 2005, 112, 249-321.	0.3	9
52	Grid-Added Value to Address Malaria. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 173-181.	3.2	8
53	Discovery of novel inhibitors for human intestinal maltase: virtual screening in a WISDOM environment and in vitro evaluation. Biotechnology Letters, 2011, 33, 2185-2191.	2.2	8
54	Bedrock radioactivity influences the rate and spectrum of mutation. ELife, 2020, 9, .	6.0	8

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55	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
56	Innovative In Silico Approaches to Address Avian Flu Using Grid Technology. Infectious Disorders - Drug Targets, 2009, 9, 358-365.	0.8	7
57	Demonstration of in silico docking at a large scale on grid infrastructure. Studies in Health Technology and Informatics, 2006, 120, 155-7.	0.3	6
58	Virtual compton scattering and polarizabilities. Progress in Particle and Nuclear Physics, 2000, 44, 371-389.	14.4	5
59	Targeted Fully 3D Monte Carlo Reconstruction in SPECT. , 2006, , .		5
60	Large Scale Deployment of Molecular Docking Application on Computational Grid infrastructures for Combating Malaria. , 2007, , .		5
61	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
62	Improvement of Task Retrieval Performance Using AMGA in a Large-Scale Virtual Screening. , 2008, , .		5
63	A Comparative Analysis of Scheduling Mechanisms for Virtual Screening Workflow in a Shared Resource Environment. , 2015, , .		5
64	Shower counters for SLAC experiments E142/E143. IEEE Transactions on Nuclear Science, 1995, 42, 529-533.	2.0	4
65	Dispersive effects from a comparison of electron and positron scattering from12C. Physical Review C, 1998, 57, 2107-2110.	2.9	3
66	New Advanced Technologies to Provide Decentralised and Secure Access to Medical Records: Case Studies in Oncology. Cancer Informatics, 2009, 7, CIN.S965.	1.9	3
67	SHARE road map for HealthGrids: Methodology. International Journal of Medical Informatics, 2009, 78, S3-S12.	3.3	3
68	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
69	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
70	Fontina Gen. nov. (Bacillariophyta): a new diatom genus from a thermo-mineral spring of the French Massif Central (France). Diatom Research, 2022, 37, 51-61.	1.2	3
71	J/ϊ¨ electroproduction with electrons above 10 GeV. Nuclear Physics A, 1991, 532, 451-464.	1.5	2
72	Grid-Enabled High Throughput Virtual Screening. , 2007, , 45-59.		2

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73	Chamaepinnularia salina (Bacillariophyta), a new diatom species from French mineral springs (Massif) Tj ETQq1 1 0.784314 rgBT /Ove	0.3	2
74	Highlighting the impact of social relationships on the propagation of respiratory viruses using percolation theory. Scientific Reports, 2021, 11, 24326.	3.3	2
75	Impact of the choice of functional regions in targeted fully 3D SPECT reconstruction. , 2007, , .		1
76	Replication and Update of Molecular Biology Databases. IEEE Transactions on Nanobioscience, 2007, 6, 131-135.	3.3	1
77	Deployment of Grid Life Sciences Applications. , 0, , 199-223.		1
78	DrugScreener-G: Towards an Integrated Environment for Grid-Enabled Large-Scale Virtual Screening and Drug Discovery. , 2008, , .		1
79	Performance analysis and optimization of AMGA for the largeâ€scale virtual screening. Software - Practice and Experience, 2009, 39, 1055-1072.	3.6	1
80	Stretch optimization for virtual screening on multi-user pilot-agent platforms on grid/cloud. , 2013, , .		1
81	Towards effective scheduling policies for manyâ€task applications: Practice and experience based on HTCaaS. Concurrency Computation Practice and Experience, 2017, 29, e4242.	2.2	1
82	Grid enabled high throughput virtual screening against four different targets implicated in malaria. Studies in Health Technology and Informatics, 2007, 126, 47-54.	0.3	1
83	Roadmap for a European healthgrid. Studies in Health Technology and Informatics, 2007, 126, 154-63.	0.3	1
84	SHARE, from vision to road map: technical steps. Studies in Health Technology and Informatics, 2007, 129, 1149-53.	0.3	1
85	Grid-enabled sentinel network for cancer surveillance. Studies in Health Technology and Informatics, 2009, 147, 289-94.	0.3	1
86	Requirements for a large solid angle detector for ELFE. Nuclear Physics A, 1997, 622, c157-c165.	1.5	0
87	Simulation Monte Carlo des dÃ©pÃ´ts de doses en radiothÃ©rapie curiethÃ©rapie et dÃ©ploiement sur grille de calcul. Radioprotection, 2007, 42, 43-64.	1.0	0
88	In silico Discovery of Chemotherapeutic Agents. , 2010, , 279-304.		0
89	A grid-enabled problem solving environment for in-silico screening in drug discovery. , 2010, , .		0
90	Scheduling of virtual screening application on multi-user pilot-agent platform on grid/cloud to optimize the stretch. , 2013, , .		0

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91	Global Initiative for Sentinel e-Health Network on Grid (GINSENG): Medical Data Integration and Semantic Developments for Epidemiology. , 2014, , .		0
92	Gestion dÃ©centralisÃ©e des documents mÃ©dicaux des patients. Un systÃ¨me de recherche et d'accÃ¨s aux donnÃ©es. Document Numerique, 2009, 12, 23-35.	0.2	0
93	In Vitro Test for Potential Inhibitors of Plasmepsin II and IV as Anti-malarial Agents. , 2010, , 67-81.		0
94	La structure en spin longitudinal du nuclÃ©on. Annales De Physique, 1997, 22, 283-404.	0.2	0
95	A simulation-driven spectrometric method to determine Î± particle attenuation in air filters. Radiation Measurements, 2021, 150, 106684.	1.4	0
96	Radiation exposure of microorganisms living in radioactive mineral springs. EPJ Web of Conferences, 2022, 261, 04001.	0.3	0