Pietro Faccioli

List of Publications by Year
in descending order

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68 papers	1,614 citations	279798 23 h-index	315739 38 g-index
72 all docs	72 docs citations	72 times ranked	3690 citing authors

#	Article	IF	Citations
1	Allostery in Its Many Disguises: From Theory to Applications. Structure, 2019, 27, 566-578.	3.3	285
2	Towards the experimental clarification ofÂquarkoniumÂpolarization. European Physical Journal C, 2010, 69, 657-673.	3.9	117
3	Full atomistic model of prion structure and conversion. PLoS Pathogens, 2019, 15, e1007864.	4.7	98
4	Quarkonium production in the LHC era: A polarized perspective. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 98-109.	4.1	77
5	Folding Pathways of a Knotted Protein with a Realistic Atomistic Force Field. PLoS Computational Biology, 2013, 9, e1003002.	3.2	76
6	Dominant folding pathways of a WW domain. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2330-2335.	7.1	63
7	The Role of Non-Native Interactions in the Folding of Knotted Proteins. PLoS Computational Biology, 2012, 8, e1002504.	3.2	56
8	Successes and challenges in simulating the folding of large proteins. Journal of Biological Chemistry, 2020, 295, 15-33.	3.4	56
9	Rotation-Invariant Relations in Vector Meson Decays into Fermion Pairs. Physical Review Letters, 2010, 105, 061601.	7.8	54
10	Study of Ï^â€² and Ï‡_cdecays as feed-down sources ofJ/Ï^ hadro-production. Journal of High Energy Physics, 2008, 2008, 004-004.	4.7	48
11	New approach to quarkonium polarization studies. Physical Review D, 2010, 81, .	4.7	47
12	Evidence for Instanton-Induced Dynamics from Lattice QCD. Physical Review Letters, 2003, 91, 182001.	7.8	41
13	Molecular Dynamics Simulation Suggests Possible Interaction Patterns at Early Steps of Î²2-Microglobulin Aggregation. Biophysical Journal, 2007, 92, 1673-1681.	0.5	39
14	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>J</mml:mi><mml:mo>/</mml:mo><mml:mi>Ï^</mml:mi></mml:math>Polarization from Fixed-Target to Collider Energies. Physical Review Letters, 2009, 102, 151802.	7.8	39
15	Atomic Detail of Protein Folding Revealed by an Ab Initio Reappraisal of Circular Dichroism. Journal of the American Chemical Society, 2018, 140, 3674-3682.	13.7	36
16	Dominant reaction pathways in protein folding: A direct validation against molecular dynamics simulations. Journal of Chemical Physics, 2010, 133, 045104.	3.0	34
17	Serpin latency transition at atomic resolution. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15414-15419.	7.1	31
18	The Role of Non-Native Interactions in the Folding of Knotted Proteins: Insights from Molecular Dynamics Simulations. Biomolecules, 2014, 4, 1-19.	4.0	30

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19	Pharmacological inactivation of the prion protein by targeting a folding intermediate. Communications Biology, 2021, 4, 62.	4.4	30
20	Characterization of Protein Folding by Dominant Reaction Pathways. Journal of Physical Chemistry B, 2008, 112, 13756-13764.	2.6	27
21	Model-independent constraints on the shape parameters of dilepton angular distributions. Physical Review D, 2011, 83, .	4.7	27
22	Determination of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ï‡</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ï‡</mml:mi><mml:mi>b</mml:mi></mml:msub></mml:math>polarizations from dilepton angular distributions in radiative decays. Physical Review D, 2011, 83, .	4.7	26
23	QCD topology at finite temperature: Statistical mechanics of self-dual dyons. Physical Review D, 2013, 87, .	4.7	25
24	All-Atom Simulations Reveal How Single-Point Mutations Promote Serpin Misfolding. Biophysical Journal, 2018, 114, 2083-2094.	0.5	19
25	Molecular Mechanisms of Activation in the Orange Carotenoid Protein Revealed by Molecular Dynamics. Journal of the American Chemical Society, 2020, 142, 21829-21841.	13.7	18
26	Polymer Physics by Quantum Computing. Physical Review Letters, 2021, 127, 080501.	7.8	17
27	Quarkonium production at the LHC: A data-driven analysis of remarkably simple experimental patterns. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 476-486.	4.1	16
28	Predicting Charge Mobility of Organic Semiconductors with Complex Morphology. Macromolecules, 2018, 51, 9060-9068.	4.8	16
29	Optimal navigation strategy of active Brownian particles in target-search problems. Journal of Chemical Physics, 2021, 155, 084901.	3.0	16
30	Target Search of Active Agents Crossing High Energy Barriers. Physical Review Letters, 2021, 126, 018001.	7.8	15
31	Dominant folding pathways of a peptide chain from ab initio quantum-mechanical simulations. Journal of Chemical Physics, 2011, 134, 024501.	3.0	13
32	From identical S- and P-wave $$p_mathrm{T}$$ p T spectra to maximally distinct polarizations: probing NRQCD with $$chi $$ Ï‡. European Physical Journal C, 2018, 78, 268.	3.9	12
33	All-atom simulation of the HET-s prion replication. PLoS Computational Biology, 2020, 16, e1007922.	3.2	10
34	Dominant Reaction Pathways by Quantum Computing. Physical Review Letters, 2021, 126, 028104.	7.8	10
35	CKM matrix: the â€˜over-consistentâ€™ picture of the unitarity triangle. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 462, 313-317.	1.6	9
36	QUESTIONS AND PROSPECTS IN QUARKONIUM POLARIZATION MEASUREMENTS FROM PROTONâ€“PROTON TO NUCLEUSâ€“NUCLEUS COLLISIONS. Modern Physics Letters A, 2012, 27, 1230022.	1.2	9

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37	Parameter-free calculation of hadronic masses from instantons. Physical Review D, 2002, 65, .	4.7	8
38	StrongCPbreaking and quark-antiquark repulsion in QCD, at finiteÎ¸. Physical Review D, 2005, 71, .	4.7	8
39	Rotation-invariant observables in parity-violating decays of vector particles to fermion pairs. Physical Review D, 2010, 82, .	4.7	8
40	Observation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ï‡</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ï‡</mml:mi><mml:mi>b</mml:mi></mml:msub></mml:math>nuclear suppression via dilepton polarization measurements. Physical Review D, 2012, 85, .	4.7	8
41	Ok Google, how could I design therapeutics against prion diseases?. Current Opinion in Pharmacology, 2019, 44, 39-45.	3.5	7
42	Unfolding Thermodynamics of Cysteine-Rich Proteins and Molecular Thermal-Adaptation of Marine Ciliates. Biomolecules, 2013, 3, 967-985.	4.0	6
43	Slow Escape from a Helical Misfolded State of the Pore-Forming Toxin Cytolysin A. Jacs Au, 2021, 1, 1217-1230.	7.9	5
44	The fate of quarkonia in heavy-ion collisions at LHC energies: a unified description of the sequential suppression patterns. European Physical Journal C, 2018, 78, 1.	3.9	4
45	INSTANTON-INDUCED CORRELATIONS IN HADRONS. International Journal of Modern Physics A, 2005, 20, 4615-4621.	1.5	3
46	Investigating biological matter with theoretical nuclear physics methods. Journal of Physics: Conference Series, 2011, 336, 012030.	0.4	2
47	Quarkonium Production and Absorption in Proton-Nucleus collisions. Lecture Notes in Physics, 2009, , 199-218.	0.7	1
48	Quarkonium polarization in pp and p-nucleus collisions. Nuclear Physics A, 2011, 855, 116-124.	1.5	1
49	Quarkonium polarization measurements. Nuclear Physics, Section B, Proceedings Supplements, 2011, 214, 97-102.	0.4	1
50	Dynamical consequences of strong CP breaking. AIP Conference Proceedings, 2006, , .	0.4	0
51	Open and hidden charm production in 920 GeV proton-nucleus collisions. AIP Conference Proceedings, 2006, , .	0.4	0
52	Charmonium production in 920 GeV proton-nucleus collisions. AIP Conference Proceedings, 2006, , .	0.4	0
53	CMS status and spin physics at the LHC. Journal of Physics: Conference Series, 2011, 295, 012013.	0.4	0
54	A simple and robust method to measure and polarizations. Nuclear Physics, Section B, Proceedings Supplements, 2011, 214, 107-109.	0.4	0

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55	Angular characterization of the <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/.	4.1	0
56	Minimal physical constraints on the angular distributions of two-body boson decays. Physical Review D, 2013, 88, .	4.7	0
57	A change of perspective in quarkonium production: All data are equal, but some are more equal than others. Nuclear Physics A, 2014, 932, 466-471.	1.5	0
58	Microscopic calculation of absorption spectra of macromolecules: An analytic approach. Journal of Chemical Physics, 2019, 150, 144103.	3.0	0
59	How Theoretical Nuclear Physics Can Help Discover New Drugs. Nuclear Physics News, 2021, 31, 29-32.	0.4	0
60	INSTANTONS, DIQUARKS AND LARGE NC LIMIT. , 2005, , .		0
61	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
62	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
63	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
64	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
65	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
66	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
67	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
68	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0