

Pietro Faccioli

List of Publications by Year in descending order

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Version: 2024-02-01

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	Pharmacological inactivation of the prion protein by targeting a folding intermediate. Communications Biology, 2021, 4, 62.	4.4	30
2	How Theoretical Nuclear Physics Can Help Discover New Drugs. Nuclear Physics News, 2021, 31, 29-32.	0.4	0
3	Target Search of Active Agents Crossing High Energy Barriers. Physical Review Letters, 2021, 126, 018001.	7.8	15
4	Dominant Reaction Pathways by Quantum Computing. Physical Review Letters, 2021, 126, 028104.	7.8	10
5	Slow Escape from a Helical Misfolded State of the Pore-Forming Toxin Cytolysin A. JACS Au, 2021, 1, 1217-1230.	7.9	5
6	Polymer Physics by Quantum Computing. Physical Review Letters, 2021, 127, 080501.	7.8	17
7	Optimal navigation strategy of active Brownian particles in target-search problems. Journal of Chemical Physics, 2021, 155, 084901.	3.0	16
8	Successes and challenges in simulating the folding of large proteins. Journal of Biological Chemistry, 2020, 295, 15-33.	3.4	56
9	All-atom simulation of the HET-s prion replication. PLoS Computational Biology, 2020, 16, e1007922.	3.2	10
10	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
11	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
12	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
13	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
14	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
15	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
16	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
17	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0
18	All-atom simulation of the HET-s prion replication. , 2020, 16, e1007922.		0

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19	Full atomistic model of prion structure and conversion. PLoS Pathogens, 2019, 15, e1007864.	4.7	98
20	Ok Google, how could I design therapeutics against prion diseases?. Current Opinion in Pharmacology, 2019, 44, 39-45.	3.5	7
21	Microscopic calculation of absorption spectra of macromolecules: An analytic approach. Journal of Chemical Physics, 2019, 150, 144103.	3.0	0
22	Allostery in Its Many Disguises: From Theory to Applications. Structure, 2019, 27, 566-578.	3.3	285
23	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
24	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
25	Predicting Charge Mobility of Organic Semiconductors with Complex Morphology. Macromolecules, 2018, 51, 9060-9068.	4.8	16
26	From identical S- and P-wave χ_{T} p T spectra to maximally distinct polarizations: probing NRQCD with χ_{T} . European Physical Journal C, 2018, 78, 268.	3.9	12
27	All-Atom Simulations Reveal How Single-Point Mutations Promote Serpin Misfolding. Biophysical Journal, 2018, 114, 2083-2094.	0.5	19
28	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
29	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
30	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
31	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
32	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
33	Unfolding Thermodynamics of Cysteine-Rich Proteins and Molecular Thermal-Adaptation of Marine Ciliates. Biomolecules, 2013, 3, 967-985.	4.0	6
34	Folding Pathways of a Knotted Protein with a Realistic Atomistic Force Field. PLoS Computational Biology, 2013, 9, e1003002.	3.2	76
35	Minimal physical constraints on the angular distributions of two-body boson decays. Physical Review D, 2013, 88, .	4.7	0
36	QCD topology at finite temperature: Statistical mechanics of self-dual dyons. Physical Review D, 2013, 87, .	4.7	25

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37	The Role of Non-Native Interactions in the Folding of Knotted Proteins. PLoS Computational Biology, 2012, 8, e1002504.	3.2	56
38	Observation of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{I} \ddagger \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{c} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{and} \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{I} \ddagger \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{b} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{nuclear suppression via dilepton polarization measurements. Physical Review D, 2012, 85, .$	4.7	8
39	QUESTIONS AND PROSPECTS IN QUARKONIUM POLARIZATION MEASUREMENTS FROM PROTON-NUCLEUS COLLISIONS. Modern Physics Letters A, 2012, 27, 1230022.	1.2	9
40	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
41	Angular characterization of the $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/$	4.1	0
42	Model-independent constraints on the shape parameters of dilepton angular distributions. Physical Review D, 2011, 83, .	4.7	27
43	Investigating biological matter with theoretical nuclear physics methods. Journal of Physics: Conference Series, 2011, 336, 012030.	0.4	2
44	CMS status and spin physics at the LHC. Journal of Physics: Conference Series, 2011, 295, 012013.	0.4	0
45	Quarkonium polarization in pp and p-nucleus collisions. Nuclear Physics A, 2011, 855, 116-124.	1.5	1
46	A simple and robust method to measure and polarizations. Nuclear Physics, Section B, Proceedings Supplements, 2011, 214, 107-109.	0.4	0
47	Quarkonium polarization measurements. Nuclear Physics, Section B, Proceedings Supplements, 2011, 214, 97-102.	0.4	1
48	Determination of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{I} \ddagger \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{c} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{and} \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{I} \ddagger \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{b} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{polarizations from dilepton angular distributions in radiative decays. Physical Review D, 2011, 83, .$	4.7	26
49	Dominant folding pathways of a peptide chain from ab initio quantum-mechanical simulations. Journal of Chemical Physics, 2011, 134, 024501.	3.0	13
50	Towards the experimental clarification of quarkonium polarization. European Physical Journal C, 2010, 69, 657-673.	3.9	117
51	Rotation-Invariant Relations in Vector Meson Decays into Fermion Pairs. Physical Review Letters, 2010, 105, 061601.	7.8	54
52	Dominant reaction pathways in protein folding: A direct validation against molecular dynamics simulations. Journal of Chemical Physics, 2010, 133, 045104.	3.0	34
53	New approach to quarkonium polarization studies. Physical Review D, 2010, 81, .	4.7	47
54	Rotation-invariant observables in parity-violating decays of vector particles to fermion pairs. Physical Review D, 2010, 82, .	4.7	8

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55	J Polarization from Fixed-Target to Collider Energies. Physical Review Letters, 2009, 102, 151802.	7.8	39
56	Quarkonium Production and Absorption in Proton-Nucleus collisions. Lecture Notes in Physics, 2009, , 199-218.	0.7	1
57	Characterization of Protein Folding by Dominant Reaction Pathways. Journal of Physical Chemistry B, 2008, 112, 13756-13764.	2.6	27
58	Study of χ_c^2 and χ_c^0 decays as feed-down sources of J/ψ hadro-production. Journal of High Energy Physics, 2008, 2008, 004-004.	4.7	48
59	Molecular Dynamics Simulation Suggests Possible Interaction Patterns at Early Steps of β_2 -Microglobulin Aggregation. Biophysical Journal, 2007, 92, 1673-1681.	0.5	39
60	Dynamical consequences of strong CP breaking. AIP Conference Proceedings, 2006, , .	0.4	0
61	Open and hidden charm production in 920 GeV proton-nucleus collisions. AIP Conference Proceedings, 2006, , .	0.4	0
62	Charmonium production in 920 GeV proton-nucleus collisions. AIP Conference Proceedings, 2006, , .	0.4	0
63	INSTANTON-INDUCED CORRELATIONS IN HADRONS. International Journal of Modern Physics A, 2005, 20, 4615-4621.	1.5	3
64	Strong CP breaking and quark-antiquark repulsion in QCD, at finite μ . Physical Review D, 2005, 71, .	4.7	8
65	INSTANTONS, DIQUARKS AND LARGE NC LIMIT. , 2005, , .		0
66	Evidence for Instanton-Induced Dynamics from Lattice QCD. Physical Review Letters, 2003, 91, 182001.	7.8	41
67	Parameter-free calculation of hadronic masses from instantons. Physical Review D, 2002, 65, .	4.7	8
68	CKM matrix: the $\tilde{\text{over-consistent}}^{\text{TM}}$ 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