

Vincent Mathieu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

1,176
citations

20
h-index

31
g-index

86
ext. papers

1,449
ext. citations

4
avg, IF

4.51
L-index

#	Paper	IF	Citations
76	Scalar and tensor resonances in J/ψ radiative decays. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	1
75	$(\pi^+ \rightarrow \eta' \pi^-)$ in the double-Regge region. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
74	Photoproduction of the $f_2(1270)$ Meson Using the CLAS Detector. <i>Physical Review Letters</i> , 2021 , 126, 082002	7.4	0
73	Progress and opportunities in backward angle (u-channel) physics. <i>European Physical Journal A</i> , 2021 , 57, 1	2.5	2
72	XYZ spectroscopy at electron-hadron facilities: Exclusive processes. <i>Physical Review D</i> , 2020 , 102,	4.9	6
71	First measurement of direct photoproduction of the $a_2(1320)0$ meson on the proton. <i>Physical Review C</i> , 2020 , 102,	2.7	2
70	Dalitz-plot decomposition for three-body decays. <i>Physical Review D</i> , 2020 , 101,	4.9	9
69	$(\omega \rightarrow 3\pi)$ and $(\omega \pi^0)$ transition form factor revisited. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
68	Khuri-Treiman equations for 3π decays of particles with spin. <i>Physical Review D</i> , 2020 , 101,	4.9	4
67	Exclusive tensor meson photoproduction. <i>Physical Review D</i> , 2020 , 102,	4.9	3
66	Nucleon resonance contributions to unpolarized inclusive electron scattering. <i>Physical Review C</i> , 2019 , 100,	2.7	11
65	Interpretation of the LHCb $P_c(4312)^+$ Signal. <i>Physical Review Letters</i> , 2019 , 123, 092001	7.4	42
64	Three-body scattering: ladders and resonances. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	14
63	Phenomenology of relativistic $\{3\} \rightarrow \{3\}$ reaction amplitudes within the isobar approximation. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	24
62	Equivalence of three-particle scattering formalisms. <i>Physical Review D</i> , 2019 , 100,	4.9	26
61	Regge phenomenology of the N^* and Δ poles. <i>Physical Review D</i> , 2019 , 99,	4.9	2
60	Determination of the Pole Position of the Lightest Hybrid Meson Candidate. <i>Physical Review Letters</i> , 2019 , 122, 042002	7.4	24

59	Double polarization observables in pentaquark photoproduction. <i>Physical Review D</i> , 2019 , 100,	4.9	15
58	Moments of angular distribution and beam asymmetries in η photoproduction at GlueX. <i>Physical Review D</i> , 2019 , 100,	4.9	5
57	What is the right formalism to search for resonances?. <i>European Physical Journal C</i> , 2018 , 78, 1	4.2	7
56	Features of η photoproduction at high energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 779, 77-81	4.2	5
55	Analyticity constraints for hadron amplitudes: Going high to heal low-energy issues. <i>Europhysics Letters</i> , 2018 , 122, 41001	1.6	2
54	Khuri-Treiman equations for $(\pi \pi)$ scattering. <i>European Physical Journal C</i> , 2018 , 78, 1	4.2	8
53	What is the right formalism to search for resonances? II. The pentaquark chain. <i>European Physical Journal C</i> , 2018 , 78, 1	4.2	4
52	Pole position of the $a_1(1260)$ from η decay. <i>Physical Review D</i> , 2018 , 98,	4.9	16
51	Vector meson photoproduction with a linearly polarized beam. <i>Physical Review D</i> , 2018 , 97,	4.9	5
50	Structure of pion photoproduction amplitudes. <i>Physical Review D</i> , 2018 , 98,	4.9	6
49	Photoproduction of $K+K^*$ meson pairs on the proton. <i>Physical Review D</i> , 2018 , 98,	4.9	4
48	Global analysis of charge exchange meson production at high energies. <i>Physical Review D</i> , 2018 , 98,	4.9	5
47	Studying the $(P_c(4450))$ Resonance in (J/ψ) Photoproduction Off Protons. <i>Few-Body Systems</i> , 2018 , 59, 1	1.6	2
46	New analysis of ρ tensor resonances measured at the COMPASS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 779, 464-472	4.2	7
45	Measurement of the beam asymmetry Σ for η and η' photoproduction on the proton at $\sqrt{s} = 9$ GeV. <i>Physical Review C</i> , 2017 , 95,	2.7	34
44	Three-body final state interaction in $\eta \rightarrow \pi \pi \pi$ updated. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 771, 497-502	4.2	31
43	Amplitude analysis and the nature of the $Z(3900)$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 772, 200-209	4.2	44
42	Finite-energy sum rules in eta photoproduction off a nucleon. <i>Physical Review D</i> , 2017 , 95,	4.9	25

- 41 On the Λ and Σ photoproduction beam asymmetry at high energies. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2017**, 774, 362-367 4.2 5
- 40 Understanding the nature of $\Upsilon(1405)$ through Regge physics. *Physical Review D*, **2016**, 93, 4.9 15
- 39 Coupled-channel model for $K\bar{N}$ scattering in the resonant region. *Physical Review D*, **2016**, 93, 4.9 32
- 38 The Joint Physics Analysis Center website **2016**, 11
- 37 Studying the $P_c(4450)$ resonance in J/ψ photoproduction off protons. *Physical Review D*, **2016**, 94, 4.9 38
- 36 Analysis Tools for Next-Generation Hadron Spectroscopy Experiments. *Acta Physica Polonica B*, **2015**, 46, 257 1.9 24
- 35 Double-Regge exchange limit for the $\bar{p}-K+K\bar{p}$ reaction. *Physical Review D*, **2015**, 91, 4.9 5
- 34 Dispersive analysis of $\Upsilon(1405)$. *Physical Review D*, **2015**, 91, 4.9 64
- 33 Three-body final state interaction in $\bar{p}p$. *Physical Review D*, **2015**, 92, 4.9 41
- 32 Toward complete pion nucleon amplitudes. *Physical Review D*, **2015**, 92, 4.9 17
- 31 Neutral pion photoproduction in a Regge model. *Physical Review D*, **2015**, 92, 4.9 22
- 30 The Boltzmann equation in classical Yang-Mills theory. *European Physical Journal C*, **2014**, 74, 1 4.2 11
- 29 HASPECT: HAdron SPEctroscopy CenTer. *Journal of Physics: Conference Series*, **2014**, 527, 012028 0.3 1
- 28 (2+1)-d glueball spectrum within a constituent picture. *European Physical Journal C*, **2013**, 73, 1 4.2 4
- 27 Collimation of energy in medium-modified QCD jets. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2013**, 718, 1421-1424 4.2 3
- 26 Massless bound-state excitations and the Schwinger mechanism in QCD. *Physical Review D*, **2012**, 85, 4.9 35
- 25 Heavy meson interquark potential. *Physical Review D*, **2011**, 84, 4.9 13
- 24 Three-particle correlations in QCD parton showers. *Physical Review D*, **2011**, 84, 4.9 2

23	Three-particle correlations in QCD jets and beyond. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011 , 38, 115007	2.9	
22	IS THE MESON SPECTRUM LIMITED?. <i>International Journal of Modern Physics A</i> , 2011 , 26, 760-762	1.2	1
21	Pseudoscalar glueball and η mixing. <i>Physical Review D</i> , 2010 , 81,	4.9	25
20	Heavy quark flavour dependence of multiparticle production in QCD jets. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	2
19	THE PHYSICS OF GLUEBALLS. <i>International Journal of Modern Physics E</i> , 2009 , 18, 1-49	0.7	186
18	Hybrid meson masses and the correlated Gaussian basis. <i>Physical Review D</i> , 2009 , 80,	4.9	5
17	Glueball phenomenology and the relativistic flux tube model. <i>Physical Review D</i> , 2009 , 80,	4.9	18
16	Gluons in glueballs: Spin or helicity?. <i>Physical Review D</i> , 2008 , 77,	4.9	25
15	Semirelativistic potential model for three-gluon glueballs. <i>Physical Review D</i> , 2008 , 77,	4.9	16
14	Short-range potentials from QCD at order g^2 . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008 , 35, 025006	2.9	7
13	Spin-dependent operators in correlated Gaussian bases. <i>Physical Review E</i> , 2008 , 77, 036706	2.4	4
12	Excited string and constituent gluon descriptions of hybrid mesons. <i>Few-Body Systems</i> , 2008 , 44, 87-89	1.6	1
11	Constituent gluon interpretation of glueballs and gluelumps. <i>European Physical Journal A</i> , 2008 , 38, 317-330	2.3	17
10	Retardation effects in the rotating string model. <i>European Physical Journal A</i> , 2007 , 31, 616-619	2.5	1
9	String deformations induced by retardation effects in mesons. <i>European Physical Journal A</i> , 2007 , 31, 213-220	2.5	3
8	Excited flux tube from $q\bar{q}g$ hybrid mesons. <i>European Physical Journal A</i> , 2007 , 32, 123-126	2.5	14
7	Modified Newton's law, braneworlds, and the gravitational quantum well. <i>Classical and Quantum Gravity</i> , 2007 , 24, 855-865	3.3	15
6	Few-body problem in terms of correlated Gaussians. <i>Physical Review E</i> , 2007 , 76, 046702	2.4	12

- 5 Retardation effects in the rotating string model **2007**, 273-276
- 4 Casimir scaling, glueballs, and hybrid gluelumps **2007**, 366-370
- 3 Semirelativistic potential model for low-lying three-gluon glueballs. *Physical Review D*, **2006**, 74, 4.9 17
- 2 Casimir scaling, glueballs, and hybrid gluelumps. *European Physical Journal A*, **2006**, 27, 225-230 2.5 25
- 1 Hybrid mesons with auxiliary fields. *European Physical Journal A*, **2006**, 29, 343-351 2.5 22