

# Jean-Yves Ollitrault

## List of Publications by Year in descending order

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119  
papers

7,437  
citations

50566

48  
h-index

58552

86  
g-index

120  
all docs

120  
docs citations

120  
times ranked

4810  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bayesian approach to long-range correlations and multiplicity fluctuations in nucleus-nucleus collisions. <i>Physical Review C</i> , 2022, 105, .	1.1	6
2	p-dependent multiplicity fluctuations from PCA and initial conditions. <i>Nuclear Physics A</i> , 2021, 1005, 121892.	0.6	0
3	Effects of initial state fluctuations on the mean transverse momentum. <i>Nuclear Physics A</i> , 2021, 1005, 121999.	0.6	13
4	Skewness of mean transverse momentum fluctuations in heavy-ion collisions. <i>Physical Review C</i> , 2021, 103, .	1.1	11
5	Correlation between mean transverse momentum and anisotropic flow in heavy-ion collisions. <i>Physical Review C</i> , 2021, 103, .	1.1	21
6	Effective shear and bulk viscosities for anisotropic flow. <i>Physical Review C</i> , 2021, 103, .	1.1	8
7	Fluid velocity from transverse momentum spectra. <i>Physical Review C</i> , 2021, 103, .	1.1	4
8	Intermediate mass dileptons as pre-equilibrium probes in heavy ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 821, 136626.	1.5	8
9	The mean transverse momentum of ultracentral heavy-ion collisions: A new probe of hydrodynamics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 809, 135749.	1.5	7
10	Thermodynamics of hot strong-interaction matter from ultrarelativistic nuclear collisions. <i>Nature Physics</i> , 2020, 16, 615-619.	6.5	48
11	Primordial non-Gaussianity in heavy-ion collisions. <i>Physical Review C</i> , 2019, 100, .	1.1	6
12	Fluctuations in heavy-ion collisions generated by QCD interactions in the color glass condensate effective theory. <i>Physical Review C</i> , 2019, 100, .	1.1	13
13	Confronting hydrodynamic predictions with Xe-Xe data. <i>Nuclear Physics A</i> , 2019, 982, 371-374.	0.6	5
14	Geometric scaling in symmetric nucleus-nucleus collisions. <i>Nuclear Physics A</i> , 2019, 982, 355-358.	0.6	2
15	Kurtosis of elliptic flow fluctuations. <i>Physical Review C</i> , 2019, 99, .	1.1	11
16	Isolating dynamical net-charge fluctuations. <i>Physical Review C</i> , 2019, 99, .	1.1	5
17	$\langle n \rangle$ -dependent particle number fluctuations from principal-component analyses in hydrodynamic simulations of heavy-ion collisions. <i>Physical Review C</i> , 2019, 100, .	1.1	16
18	Relating centrality to impact parameter in nucleus-nucleus collisions. <i>Physical Review C</i> , 2018, 97, .	1.1	30

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19	Hydrodynamic predictions for 5.44 TeV Xe+Xe collisions. Physical Review C, 2018, 97, .	1.1	77
20	Nonlinear coupling of flow harmonics: Hexagonal flow and beyond. Physical Review C, 2018, 97, .	1.1	8
21	Effects of initial-state dynamics on collective flow within a coupled transport and viscous hydrodynamic approach. Physical Review C, 2018, 97, .	1.1	12
22	Reconstructing the impact parameter of proton-nucleus and nucleus-nucleus collisions. Physical Review C, 2018, 98, .	1.1	17
23	Skewness of elliptic flow fluctuations. Physical Review C, 2017, 95, .	1.1	43
24	Constraining the equation of state with identified particle spectra. Physical Review C, 2017, 96, .	1.1	10
25	Systematic procedure for analyzing cumulants at any order. Physical Review C, 2017, 95, .	1.1	32
26	Relative flow fluctuations as a probe of initial state fluctuations. Physical Review C, 2017, 95, .	1.1	61
27	The fluctuations of quadrangular flow. Journal of Physics: Conference Series, 2017, 779, 012064.	0.3	4
28	Nonlinear hydrodynamic response confronts LHC data. Nuclear Physics A, 2016, 956, 340-343.	0.6	7
29	Symmetric cumulants and event-plane correlations in Pb + Pb collisions. Physical Review C, 2016, 94, .	1.1	48
30	Linear and cubic response to the initial eccentricity in heavy-ion collisions. Physical Review C, 2016, 93, .	1.1	79
31	Hydrodynamic predictions for 5.02 TeV Pb-Pb collisions. Physical Review C, 2016, 93, .	1.1	44
32	Non-Gaussian eccentricity fluctuations. Physical Review C, 2016, 94, .	1.1	21
33	Characterizing flow fluctuations with moments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 94-98.	1.5	62
34	Azimuthal anisotropy distributions in high-energy collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 290-295.	1.5	30
35	Viscous corrections to anisotropic flow and transverse momentum spectra from transport theory. Nuclear Physics A, 2015, 941, 87-96.	0.6	14
36	Hydrodynamic predictions for 5.02 TeV Pb-Pb collisions. Physical Review C, 2016, 93, .	1.1	44

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37	Principal Component Analysis of Event-by-Event Fluctuations. <i>Physical Review Letters</i> , 2015, 114, 152301.	2.9	54
38	Continuous description of fluctuating eccentricities. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 738, 166-171.	1.5	14
39	Correlations in the Monte Carlo Glauber model. <i>Physical Review C</i> , 2014, 90, .	1.1	20
40	Eccentricity distributions in nucleus-nucleus collisions. <i>Physical Review C</i> , 2014, 90, .	1.1	39
41	Universal parameterization of initial-state fluctuations and its applications to event-by-event anisotropy. <i>Nuclear Physics A</i> , 2014, 931, 1007-1011.	0.6	2
42	Universal Fluctuation-Driven Eccentricities in Proton-Proton, Proton-Nucleus, and Nucleus-Nucleus Collisions. <i>Physical Review Letters</i> , 2014, 112, .	2.9	81
43	Constraining models of initial conditions with elliptic and triangular flow data. <i>Physical Review C</i> , 2014, 89, .	1.1	43
44	Constraining models of initial state with $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.els. Nuclear$	0.6	7
45	Characterizing the hydrodynamic response to the initial conditions. <i>Nuclear Physics A</i> , 2013, 904-905, 503c-506c.	0.6	8
46	Hydro overview. <i>Nuclear Physics A</i> , 2013, 904-905, 75c-82c.	0.6	16
47	Extracting the shear viscosity of the quark-gluon plasma from flow in ultra-central heavy-ion collisions. <i>Nuclear Physics A</i> , 2013, 904-905, 377c-380c.	0.6	58
48	Eliminating experimental bias in anisotropic-flow measurements of high-energy nuclear collisions. <i>Physical Review C</i> , 2013, 87, .	1.1	85
49	Event-plane correlators. <i>Physical Review C</i> , 2013, 88, .	1.1	56
50	Breaking of factorization of two-particle correlations in hydrodynamics. <i>Physical Review C</i> , 2013, 87, .	1.1	89
51	Directed Flow at Midrapidity in $\sqrt{s_{NN}}=2.76$ TeV Pb+Pb Collisions. <i>Physical Review Letters</i> , 2012, 108, 252302.	2.9	49
52	Mapping the hydrodynamic response to the initial geometry in heavy-ion collisions. <i>Physical Review C</i> , 2012, 85, .	1.1	238
53	Anisotropic Flow in Event-by-Event Ideal Hydrodynamic Simulations of $\langle \text{mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > \langle \text{mml:msqrt} > \langle \text{mml:msub} > \langle \text{mml:mi} > s < / \text{mml:mi} > \langle \text{mml:mrow} > \langle \text{mml:mi} > N < / \text{mml:mi} > \langle \text{mml:mi} > N < / \text{mml:mi} > \langle / \text{mml:mrow} > \langle \text{mml:mathvariant="bold" > = < / \text{mml:mo} > \langle \text{mml:mn} > 200 < / \text{mml:mn} > \langle \text{mml:mtext} > \hat{a} < \text{mml:mtext} > \hat{a} < \text{mml:mtext} > \langle \text{mml:mi} > Au < / \text{mml:mi} > \langle \text{mml:mo} > \langle \text{mml:mathvariant="b. Physical Review Letters$	2.9	5
54	Phenomenology of the little bang. <i>Journal of Physics: Conference Series</i> , 2011, 312, 012002.	0.3	19

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55	Eccentricity and elliptic flow in proton-proton collisions from parton evolution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 394-397.	1.5	62
56	Reaction plane from Lee-Yang Zeroes for elliptic flow analysis in ALICE. Indian Journal of Physics, 2011, 85, 1069-1073.	0.9	0
57	Directed flow at midrapidity in event-by-event hydrodynamics. Physical Review C, 2011, 83, .	1.1	55
58	Event-plane flow analysis without nonflow effects. Physical Review C, 2011, 83, .	1.1	3
59	Understanding anisotropy generated by fluctuations in heavy-ion collisions. Physical Review C, 2011, 84, .	1.1	75
60	Directed Flow at Midrapidity in Heavy-Ion Collisions. Physical Review Letters, 2011, 106, 102301.	2.9	63
61	Determining initial-state fluctuations from flow measurements in heavy-ion collisions. Physical Review C, 2011, 84, .	1.1	106
62	Eccentricity and elliptic flow in pp collisions at the LHC. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124053.	1.4	9
63	New flow observables. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124055.	1.4	20
64	Why is larger than predicted by hydrodynamics?. Nuclear Physics A, 2010, 834, 295c-297c.	0.6	0
65	NeXSPheRIO results on elliptic flow and directed flow for Au+Au and Cu+Cu collisions at RHIC. Indian Journal of Physics, 2010, 84, 1657-1661.	0.9	2
66	Are eccentricity fluctuations able to explain the centrality dependence of $v_4$ ? Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 094024.	1.4	1
67	ideal and viscous hydrodynamic simulations of nuclear collisions at the BNL Relativistic Heavy Ion Collider (RHIC) and the CERN Large Hadron Collider (LHC). Physical Review C, 2010, 81, .	1.1	41
68	Effects of flow fluctuations and partial thermalization on $v_4$ . Physical Review C, 2010, 81, .	1.1	39
69	Triangular flow in hydrodynamics and transport theory. Physical Review C, 2010, 82, .	1.1	280
70	Constraining the viscous freeze-out distribution function with data obtained at the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2010, 82, .	1.1	23
71	Effect of flow fluctuations and nonflow on elliptic flow methods. Physical Review C, 2009, 80, .	1.1	143
72	Does interferometry probe thermalization?. Physical Review C, 2009, 79, .	1.1	6

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73	Effect of flow fluctuations and nonflow on elliptic flow methods. Nuclear Physics A, 2009, 830, 279c-282c.	0.6	4
74	The centrality dependence of $v_2$ : the ideal hydro limit and. Nuclear Physics A, 2009, 830, 463c-466c.	0.6	18
75	Effects of partial thermalization on HBT interferometry. Nuclear Physics A, 2009, 830, 817c-820c.	0.6	0
76	Heavy-ion collisions at the LHC—Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	1.4	255
77	Relativistic hydrodynamics for heavy-ion collisions. European Journal of Physics, 2008, 29, 275-302.	0.3	149
78	Covariant transport theory approach to elliptic flow in relativistic heavy ion collision. Physical Review C, 2008, 77, .	1.1	39
79	Centrality dependence of elliptic flow, the hydrodynamic limit, and the viscosity of hot QCD. Physical Review C, 2007, 76, .	1.1	175
80	Eccentricity fluctuations and elliptic flow at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 641, 260-264.	1.5	117
81	Momentum spectra, anisotropic flow, and ideal fluids. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 227-231.	1.5	131
82	Nucleus-nucleus collisions at RHIC: A review. Pramana - Journal of Physics, 2006, 67, 899-914.	0.9	4
83	Elliptic flow and incomplete equilibration at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 627, 49-54.	1.5	173
84	First analysis of anisotropic flow with Lee-Yang zeros. Physical Review C, 2005, 72, .	1.1	20
85	Anisotropic flow from Lee-Yang zeros: a practical guide. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1213-S1216.	1.4	30
86	Azimuthally sensitive correlations in nucleus-nucleus collisions. Physical Review C, 2004, 70, .	1.1	55
87	Genuine collective flow from Lee-Yang zeroes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 580, 157-162.	1.5	28
88	Directed flow at RHIC from Lee-Yang zeroes. Nuclear Physics A, 2004, 742, 130-143.	0.6	3
89	Multiparticle azimuthal correlations. Pramana - Journal of Physics, 2003, 60, 753-763.	0.9	3
90	Analysis of anisotropic flow with Lee-Yang zeroes. Nuclear Physics A, 2003, 727, 373-426.	0.6	95

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91	Analysis of directed flow from three-particle correlations. Nuclear Physics A, 2003, 715, 629c-632c.	0.6	7
92	Directed and elliptic flow in Pb+Pb collisions at 40 and 158 AGeV. Nuclear Physics A, 2003, 715, 583c-586c.	0.6	9
93	Directed and elliptic flow of charged pions and protons in Pb+Pb collisions at 40 A and 158 A GeV. Physical Review C, 2003, 68, .	1.1	282
94	Analysis of directed flow from elliptic flow. Physical Review C, 2002, 66, .	1.1	37
95	Gravitational oscillations of a liquid column in a pipe. Physics of Fluids, 2002, 14, 1985-1992.	1.6	66
96	Effects of momentum conservation on the analysis of anisotropic flow. Physical Review C, 2002, 66, .	1.1	51
97	New method for measuring azimuthal distributions in nucleus-nucleus collisions. Physical Review C, 2001, 63, .	1.1	210
98	Flow analysis from multiparticle azimuthal correlations. Physical Review C, 2001, 64, .	1.1	320
99	Effects of HBT correlations on flow measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 477, 51-58.	1.5	47
100	Transverse Energy Fluctuations and the Pattern of $\langle \hat{v}_2 \rangle$ Suppression in Pb-Pb Collisions. Physical Review Letters, 2000, 85, 4012-4015.	2.9	71
101	Is the analysis of flow at the CERN Super Proton Synchrotron reliable?. Physical Review C, 2000, 62, .	1.1	108
102	Last call for RHIC predictions. Nuclear Physics A, 1999, 661, 205-260.	0.6	91
103	Rebounds in a Capillary Tube. Langmuir, 1999, 15, 3679-3682.	1.6	85
104	Flow systematics from SIS to SPS energies. Nuclear Physics A, 1998, 638, 195c-206c.	0.6	152
105	Damping rates of hard momentum particles in a cold ultrarelativistic plasma. Physical Review D, 1997, 56, 5108-5122.	1.6	26
106	suppression in $Pb-Pb$ collisions: A hint of quark-gluon plasma production?. Nuclear Physics A, 1996, 610, 452-457.	0.6	23
107	$\langle \hat{v}_2 \rangle$ Suppression in Pb-Pb Collisions: A Hint of Quark-Gluon Plasma Production?. Physical Review Letters, 1996, 77, 1703-1706.	2.9	152
108	Collective flow from azimuthal correlations. Nuclear Physics A, 1995, 590, 561-564.	0.6	21

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109	Collective fermionic excitations in systems with a large chemical potential. Physical Review D, 1993, 48, 1390-1408.	1.6	62
110	Determination of the reaction plane in ultrarelativistic nuclear collisions. Physical Review D, 1993, 48, 1132-1139.	1.6	108
111	Anisotropy as a signature of transverse collective flow. Physical Review D, 1992, 46, 229-245.	1.6	1,028
112	Impact parameter dependence of transverse momentum in nucleus-nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 273, 32-36.	1.5	14
113	On the fate of $J/\psi$ produced in a nucleus-nucleus collision. Physical Review D, 1989, 39, 232-249.	1.6	75
114	On the A dependence of hadroproduction of $J/\psi$ on nuclei and the ET dependence of $J/\psi$ suppression in nucleus-nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 217, 386-391.	1.5	56
115	The $p_T$ dependence of $J/\psi$ production in hadron-nucleus and nucleus-nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 217, 392-396.	1.5	72
116	Structure of hydrodynamic flows in expanding quark-gluon plasmas. Physical Review D, 1987, 36, 916-927.	1.6	45
117	Equation of state and hydrodynamics of quark-gluon plasmas. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 191, 21-26.	1.5	30
118	$J/\psi$ momentum distribution and lifetime of a quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 199, 499-503.	1.5	92
119	Hydrodynamics of a quark-gluon plasma undergoing a phase transition. Nuclear Physics A, 1986, 458, 745-772.	0.6	49