Jose Antonio Oller

List of Publications by Year
in descending order

85	5,786	87888 38	71685 76
papers	citations	h-index	g-index

86	86	86	1307
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chiral dynamics in the presence of bound states: kaonâ€“nucleon interactions revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 500, 263-272.	4.1	736
2	Chiral symmetry amplitudes in the S-wave isoscalar and isovector channels and the Ïƒ, f0(980), a0(980) scalar mesons. Nuclear Physics A, 1997, 620, 438-456.	1.5	624
3	Chiral dynamics of the two Î›(1405) states. Nuclear Physics A, 2003, 725, 181-200.	1.5	568
4	Nonperturbative Approach to Effective Chiral Lagrangians and Meson Interactions. Physical Review Letters, 1998, 80, 3452-3455.	7.8	299
5	Chiral unitary approach to meson-meson and meson-baryon interactions and nuclear applications. Progress in Particle and Nuclear Physics, 2000, 45, 157-242.	14.4	247
6	S-wave scattering in chiral perturbation theory with resonances. Nuclear Physics B, 2000, 587, 331-362.	2.5	163
7	Strangeness-changing scalar form factors. Nuclear Physics B, 2002, 622, 279-308.	2.5	137
8	Meson-baryon reactions with strangeness<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>â^'</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math>within a chiral framework. Physical Review C, 2013, 87, .	2.9	127
9	Identification of a Scalar Glueball. Physical Review Letters, 2008, 101, 252002.	7.8	119
10	On the strangeness -1 S-wave meson-baryon scattering. European Physical Journal A, 2006, 28, 63-82.	2.5	116
11	decays, chiral dynamics and OZI violation. Nuclear Physics A, 2001, 679, 671-697.	1.5	112
12	Chiral unitary mesonÃ¢Â€Â“baryon dynamics in the presence of resonances: elastic pionÃ¢Â€Â“nucleon scattering. Nuclear Physics A, 2000, 673, 311-334.	1.5	107
13	Improved description of the -scattering phenomenology at low energies in covariant baryon chiral perturbation theory. Annals of Physics, 2013, 336, 413-461.	2.8	107
14	In-medium Chiral Perturbation Theory beyond the Mean-Field Approximation. Annals of Physics, 2002, 297, 27-66.	2.8	104
15	Anatomy of the newly observed hidden-charm pentaquark states: P(4312), P(4440) and P(4457). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 144-149.	4.1	104
16	Surprises in Threshold Antikaon-Nucleon Physics. Physical Review Letters, 2005, 95, 172502.	7.8	97
17	Interpretation of the LHCb <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>P</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math> States as Hadronic Molecules and Hints of a Narrow <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>P</mml:mi><mml:mi>c</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>3</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:math>$\bar{D}^{*}\Sigma_{c}$	7.8	97
18	Resonances from meson-meson scattering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>3</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:math>chiral perturbation theory. Physical Review D, 2011, 84, .	4.7	88

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19	ScalarKÏ€form factor and light-quark masses. Physical Review D, 2006, 74, .	4.7	86
20	Orderp6chiral couplings from the scalarKÂ form factor. Journal of High Energy Physics, 2004, 2004, 047-047.	4.7	84
21	Probabilistic interpretation of compositeness relation for resonances. Physical Review D, 2016, 93, .	4.7	76
22	Theoretical study of the Î³Î³ â†' meson-meson reaction. Nuclear Physics A, 1998, 629, 739-760.	1.5	75
23	Size of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïƒ</mml:mi></mml:math>meson and its nature. Physical Review D, 2012, 86, .	4.7	72
24	Final state interactions in hadronicDdecays. Physical Review D, 2005, 71, .	4.7	71
25	Different pole structures in line shapes of the X(3872). European Physical Journal C, 2017, 77, 1.	3.9	70
26	The mixing angle of the lightest scalar nonet. Nuclear Physics A, 2003, 727, 353-369.	1.5	69
27	Meson-baryon effective chiral Lagrangians to Script O(q3). Journal of High Energy Physics, 2006, 2006, 079-079.	4.7	68
28	Chiral dynamics in form factors, spectral-function sum rules, meson-meson scattering and semilocal duality. Physical Review D, 2012, 86, .	4.7	63
29	Non-perturbative methods for a chiral effective field theory of finite density nuclear systems. Annals of Physics, 2011, 326, 241-306.	2.8	58
30	Improved dispersion relations for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>Î³</mml:mi><mml:mi>Î³</mml:mi><mml:mo>â†'</mml:mo><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn> Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 201-208.	4.1	47
31	Revisiting the nature of the Pc pentaquarks. Journal of High Energy Physics, 2021, 2021, 1.	4.7	45
32	General considerations on the nature of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mi>b</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>10610</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 217 Td (stretchy="false">)</	4.7	45
33	Chiral study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mi>b</mml:mi></mml:msub><mml:mo mathvariant="bold" stretchy="false">(</mml:mo><mml:mn>10610</mml:mn><mml:mo mathvariant="bold") Tj ETQq1 1 0.784314 rgBT /O xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïƒ</mml:mi><mml:mi>Î·</mml:mi></mml:math> scattering phase shifts in light o	4.7	43
34	Finite width effects in Ï† radiative decays. Nuclear Physics A, 2003, 714, 161-182.	1.5	42
35	Towards a precise determination of the scattering amplitudes of the charmed and light-flavor pseudoscalar mesons. European Physical Journal C, 2019, 79, 1.	3.9	42
36	Scrutinizing the Î·-Î·â€² mixing, masses and pseudoscalar decay constants in the framework of U(3) chiral effective field theory. Journal of High Energy Physics, 2015, 2015, 1.	4.7	39

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37	A chiral covariant approach to $$varvec{ho ho }$$ Ï·Ï·scattering. European Physical Journal C, 2017, 77, 1.	3.9	39
38	Insights into the inner structures of the fully charmed tetraquark state <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>X</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>6900</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 692 Td (stretchy="false">)</m	4.7	38
39	Coupled-channel approach in hadronâ€"hadron scattering. Progress in Particle and Nuclear Physics, 2020, 110, 103728.	14.4	37
40	Scalar radius of the pion and zeros in the form factor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 651, 139-146.	4.1	36
41	Two photons into Ï€0Ï€0. European Physical Journal A, 2008, 37, 15-32.	2.5	35
42	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>P</mml:mi></mml:math>-wave coupled-channel scattering of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>B</mml:mi><mml:mi>s</mml:mi></mml:msub><mml:mi>Ï€</mml:mi><mml:mo>,</mml:mo><m accent="true"><mml:mi>K</mml:mi><mml:mo stretchy="false">Â¯</m. Physical Review D, 2016, 94, .	4.7	32
43	New results from a number operator interpretation of the compositeness of bound and resonant states. Annals of Physics, 2018, 396, 429-458.	2.8	30
44	Resonance on top of thresholds: The<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Î›</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi></mml:mrow></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>2595</mml:mn><mml:msup><mml:mrow><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 452 an extremely fine-tuned state. Physical Review D, 2016, 93, .	4.7	28
45	Unitarization Technics in Hadron Physics with Historical Remarks. Symmetry, 2020, 12, 1114.	2.2	28
46	Unified description of the hidden-charm tetraquark states <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mrow><mml:mi>c</mml:mi><mml:mi>s</mml:mi></mml:mrow></mml:msub stretchy="false">(</mml:mo><mml:mn>3985</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 377 Td (stretchy="false">)</m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi>	4.7	28
47	The chiral quark condensate and pion decay constant in nuclear matter at next-to-leading order. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 125002.	3.6	26
48	OlleretÂal.Reply:. Physical Review Letters, 2006, 96, .	7.8	25
49	S-waveÎ›Ï€phase shift is not large. Physical Review D, 2001, 64, .	4.7	24
50	Finite volume treatment of Ï€Ï€ scattering and limits to phase shifts extraction from lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	4.7	24
51	Insights into the nature of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>P</mml:mi><mml:mrow><mml:mi>c</mml:mi><mml:mi>s</mml:mi></mml:mrow></mml:msu stretchy="false">(</mml:mo><mml:mn>4459</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 172 Td (stretchy="fal	4.7	22
52	Chiral Lagrangians at finite density. Physical Review C, 2002, 65, .	2.9	21
53	Existence of two-solar-mass neutron star constrains gravitational constant<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>G</mml:mi><mml:mi>N</mml:mi></mml:msub></mml:math>at strong field. Physical Review C, 2012, 85, .	2.9	21
54	Nucleonâ€"nucleon interactions from effective field theory. Nuclear Physics A, 2003, 725, 85-115.	1.5	20

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55	Nucleon-nucleon interactions from dispersion relations: Elastic partial waves. Physical Review C, 2011, 84, .	2.9	19
56	Non-perturbative chiral approach to Kâˆ’p â†’ Î³Y reactions. Nuclear Physics A, 1998, 643, 402-414.	1.5	18
57	Nucleon-nucleon interactions from dispersion relations: Coupled partial waves. Physical Review C, 2012, 86, .	2.9	15
58	Nucleon-nucleon scattering from dispersion relations: Next-to-next-to-leading order study. Physical Review C, 2016, 93, .	2.9	14
59	Nucleon-nucleon scattering from the dispersive<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>/</mml:mo><mml:mi>D</mml:mi></mml:mrow></mml:math> Next-to-leading order study. Physical Review C, 2014, 89, .	2.9	13
60	The exact discontinuity of a partial wave along the left-hand cut and the exact <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2038" altimg="si3.svg"><mml:mrow><mml:mi>N</mml:mi><mml:mo>â•</mml:mo><mml:mi>D</mml:mi></mml:mrow></mml:math> method in non-relativistic scattering. Annals of Physics, 2019, 411, 167965.	2.8	13
61	Hyperon resonances coupled to pseudoscalar- and vector-baryon channels. Physical Review C, 2019, 100, .	2.9	12
62	A Brief Introduction to Dispersion Relations. SpringerBriefs in Physics, 2019, , .	0.7	11
63	Systematizing and addressing theory uncertainties of unitarization with the Inverse Amplitude Method. SciPost Physics, 2021, 11, .	4.9	11
64	Non-perturbative study of the light pseudoscalar masses in chiral dynamics. European Physical Journal A, 2007, 34, 371-386.	2.5	10
65	Aspects of strangeness -1 meson-baryon scattering. European Physical Journal A, 2007, 31, 527-533.	2.5	9
66	Relativistic chiral representation of the <mml:math altimg="si21.gif" display="inline" 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/co	14.4	8
67	Resonances, chiral symmetry, coupled channel unitarity and effective Lagrangians. Nuclear Physics A, 2000, 675, 92-95.	1.5	7
68	Structure of Î›(1405) and chiral dynamics. Nuclear Physics A, 2005, 755, 669-672.	1.5	7
69	An in-medium chiral power-counting scheme for nuclear matter and some applications. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 073001.	3.6	6
70	Analysis on the composite nature of the light scalar mesons <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>f</mml:mi><mml:mn>0</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>980</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137 Td (stretchy="false">)</mm	4.7	6
71	Relativistic chiral representation of the <mml:math altimg="si20.gif" display="inline" 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/co	14.4	5
72	Dynamical generation of hyperon resonances. Nuclear Physics A, 2005, 754, 202-211.	1.5	4

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73	DYNAMICALLY GENERATED RESONANCES IN THE CHIRAL UNITARY APPROACH TO MESON BARYON INTERACTION. International Journal of Modern Physics A, 2005, 20, 1619-1626.	1.5	4
74	Ladder resummation of spin 1/2 fermion many-body systems with arbitrary partial-wave content. Annals of Physics, 2022, 437, 168741.	2.8	4
75	Meson exchange currents in kaon scattering on the lightest nuclei. Physical Review C, 1997, 55, 2985-2990.	2.9	3
76	Photoproduction of meson and baryon resonances in a chiral unitary approach. Progress in Particle and Nuclear Physics, 2000, 44, 213-222.	14.4	3
77	Meson-meson scattering from U(3) chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 184-187.	0.4	2
78	Updated study of S-wave <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/x	1.5	2
79	Recent progress on the chiral unitary approach to meson meson and meson baryon interactions. Nuclear Physics A, 2000, 670, 111-118.	1.5	1
80	RECENT DEVELOPMENTS IN CHIRAL UNITARY DYNAMICS OF RESONANCES. Modern Physics Letters A, 2008, 23, 2201-2208.	1.2	1
81	The Lightest Scalar Nonet and Its Mixing Angle. AIP Conference Proceedings, 2003, , .	0.4	0
82	Nucleon-Nucleon interactions from effective field theory. AIP Conference Proceedings, 2003, , .	0.4	0
83	Hadron resonances generated from the dynamics of the lightest scalar ones. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 188-191.	0.4	0
84	Essentials of the Ïƒ resonance in mesonâ€“meson scattering and spectral functions. Nuclear Physics, Section B, Proceedings Supplements, 2013, 234, 245-248.	0.4	0
85	Assessment of systematic theory uncertainties in IAM unitarization. Nuclear and Particle Physics Proceedings, 2021, 312-317, 82-86.	0.5	0