

Jose Antonio Oller

List of Publications by Year in descending order

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85
papers

5,786
citations

87888

38
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71685

76
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86
all docs

86
docs citations

86
times ranked

1307
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ladder resummation of spin 1/2 fermion many-body systems with arbitrary partial-wave content. Annals of Physics, 2022, 437, 168741. Analysis on the composite nature of the light scalar mesons $f_0(980) \rightarrow \text{Tj} \text{ETQ} q_0 0 0$ | 2.8 | 4 |
| 2 | Insights into the inner structures of the fully charmed tetraquark state X_c | 4.7 | 38 |
| 3 | Unified description of the hidden-charm tetraquark states Z_c | 4.7 | 38 |
| 4 | Assessment of systematic theory uncertainties in IAM unitarization. Nuclear and Particle Physics Proceedings, 2021, 312-317, 82-86. | 0.5 | 0 |
| 6 | Systematizing and addressing theory uncertainties of unitarization with the Inverse Amplitude Method. SciPost Physics, 2021, 11, . | 4.9 | 11 |
| 7 | Revisiting the nature of the Pc pentaquarks. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 45 |
| 8 | Insights into the nature of the P_c States | 4.7 | 42 |
| 9 | Coupled-channel approach in hadron-hadron scattering. Progress in Particle and Nuclear Physics, 2020, 110, 103728. | 14.4 | 37 |
| 10 | Unitarization Technics in Hadron Physics with Historical Remarks. Symmetry, 2020, 12, 1114. Interpretation of the LHCb P_c States | 2.2 | 28 |
| 11 | as Hadronic Molecules and Hints of a Narrow P_c | 7.8 | 97 |
| 12 | Hyperon resonances coupled to pseudoscalar- and vector-baryon channels. Physical Review C, 2019, 100, . | 2.9 | 12 |
| 13 | The exact discontinuity of a partial wave along the left-hand cut and the exact $N \rightarrow D$ method in non-relativistic scattering. Annals of Physics, 2019, 411, 167965. | 2.8 | 13 |
| 14 | 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 |
| 15 | A Brief Introduction to Dispersion Relations. SpringerBriefs in Physics, 2019, , . | 0.7 | 11 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Study of the $\langle \mathbf{P} \rangle$ scattering phase shifts in light of the chiral covariant approach to $\vec{h} \cdot \vec{h}$ scattering. European Physical Journal C, 2017, 77, 1. | 4.7 | 43 |
| 20 | A chiral covariant approach to $\vec{h} \cdot \vec{h}$ scattering. European Physical Journal C, 2017, 77, 1. | 3.9 | 39 |
| 21 | Different pole structures in line shapes of the X(3872). European Physical Journal C, 2017, 77, 1. | 3.9 | 70 |
| 22 | Wave coupled-channel scattering of \mathbf{P} -wave meson-baryon resonances. Physical Review D, 2016, 94, . | 4.7 | 32 |
| 23 | Resonance on top of thresholds: The \mathbf{B}^*_{c1} meson. Physical Review D, 2016, 94, . | 4.7 | 577 |
| 24 | Nucleon-nucleon scattering from dispersion relations: Next-to-next-to-leading order study. Physical Review C, 2016, 93, . | 2.9 | 14 |
| 25 | Probabilistic interpretation of compositeness relation for resonances. Physical Review D, 2016, 93, . | 4.7 | 76 |
| 26 | Resonance on top of thresholds: The \mathbf{B}^*_{c1} meson. Physical Review D, 2016, 93, . | 4.7 | 28 |
| 27 | Scrutinizing the $\bar{b} \rightarrow c$ 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 |
| 28 | Nucleon-nucleon scattering from the dispersive \mathbf{N} - \mathbf{N} scattering. Physical Review C, 2014, 89, . | 4.7 | 18 |
| 29 | Essentials of the $\bar{b} \rightarrow c$ meson scattering and spectral functions. Nuclear Physics, Section B, Proceedings Supplements, 2013, 234, 245-248. | 1.5 | 2 |
| 30 | Improved description of the π -scattering phenomenology at low energies in covariant baryon chiral perturbation theory. Annals of Physics, 2013, 336, 413-461. | 0.4 | 0 |
| 31 | Meson-baryon reactions with strangeness \hat{a}^{\sim} within a chiral framework. Physical Review C, 2013, 87, . | 2.8 | 107 |
| 32 | Nucleon-nucleon interactions from dispersion relations: Coupled partial waves. Physical Review C, 2012, 86, . | 2.9 | 127 |
| 33 | Size of the $\bar{f} f$ meson and its nature. Physical Review D, 2012, 86, . | 2.9 | 15 |
| 34 | Chiral dynamics in form factors, spectral-function sum rules, meson-meson scattering and semilocal duality. Physical Review D, 2012, 86, . | 4.7 | 72 |
| 35 | Finite volume treatment of $\bar{f} f$ scattering and limits to phase shifts extraction from lattice QCD. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 63 |
| 36 | Finite volume treatment of $\bar{f} f$ scattering and limits to phase shifts extraction from lattice QCD. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 24 |

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|----|---|------|-----------|
| 37 | Existence of two-solar-mass neutron star constrains gravitational constant $G = \frac{4\pi G_N}{3} \left(1 + \frac{2\gamma}{3} \right)$ Relativistic chiral representation of the Physical Review D, 2007, 75, 054012. overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" | 2.9 | 21 |
| 38 | Non-perturbative methods for a chiral effective field theory of finite density nuclear systems. Annals of Physics, 2011, 326, 241-306. Resonances from meson-meson scattering in $U(3)$ chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 184-187. | 14.4 | 8 |
| 39 | Hadron resonances generated from the dynamics of the lightest scalar ones. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 188-191. | 14.4 | 5 |
| 40 | Non-perturbative methods for a chiral effective field theory of finite density nuclear systems. Annals of Physics, 2011, 326, 241-306. | 2.8 | 58 |
| 41 | Meson-meson scattering from U(3) chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 184-187. | 4.7 | 88 |
| 42 | Nucleon-nucleon interactions from dispersion relations: Elastic partial waves. Physical Review C, 2011, 84, . | 2.9 | 19 |
| 43 | 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 |
| 44 | Meson-meson scattering from U(3) chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 184-187. | 0.4 | 2 |
| 45 | 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 |
| 46 | Improved dispersion relations for $\hat{\Gamma}^3$ Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 201-208. | 4.1 | 47 |
| 47 | Two photons into $\pi^0\pi^0$. European Physical Journal A, 2008, 37, 15-32. | 2.5 | 35 |
| 48 | RECENT DEVELOPMENTS IN CHIRAL UNITARY DYNAMICS OF RESONANCES. Modern Physics Letters A, 2008, 23, 2201-2208. | 1.2 | 1 |
| 49 | Identification of a Scalar Glueball. Physical Review Letters, 2008, 101, 252002. | 7.8 | 119 |
| 50 | 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 |
| 51 | Aspects of strangeness -1 meson-baryon scattering. European Physical Journal A, 2007, 31, 527-533. | 2.5 | 9 |
| 52 | Non-perturbative study of the light pseudoscalar masses in chiral dynamics. European Physical Journal A, 2007, 34, 371-386. | 2.5 | 10 |
| 53 | Scalar form factor and light-quark masses. Physical Review D, 2006, 74, . | 4.7 | 86 |
| 54 | On the strangeness -1 S-wave meson-baryon scattering. European Physical Journal A, 2006, 28, 63-82. | 2.5 | 116 |

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|----|--|-----|-----------|
| 55 | Meson-baryon effective chiral Lagrangians to Script O(q3). Journal of High Energy Physics, 2006, 2006, 079-079. | 4.7 | 68 |
| 56 | OlleretÂal.Reply:. Physical Review Letters, 2006, 96, . | 7.8 | 25 |
| 57 | Dynamical generation of hyperon resonances. Nuclear Physics A, 2005, 754, 202-211. | 1.5 | 4 |
| 58 | Structure of $\hat{b}(1405)$ and chiral dynamics. Nuclear Physics A, 2005, 755, 669-672. | 1.5 | 7 |
| 59 | Surprises in Threshold Antikaon-Nucleon Physics. Physical Review Letters, 2005, 95, 172502. | 7.8 | 97 |
| 60 | Final state interactions in hadronicDdecays. Physical Review D, 2005, 71, . | 4.7 | 71 |
| 61 | 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 |
| 62 | Orderp6chiral couplings from the scalarKÂ form factor. Journal of High Energy Physics, 2004, 2004, 047-047. | 4.7 | 84 |
| 63 | The mixing angle of the lightest scalar nonet. Nuclear Physics A, 2003, 727, 353-369. | 1.5 | 69 |
| 64 | Finite width effects in \hat{t} radiative decays. Nuclear Physics A, 2003, 714, 161-182. | 1.5 | 42 |
| 65 | Nucleonâ€nucleon interactions from effective field theory. Nuclear Physics A, 2003, 725, 85-115. | 1.5 | 20 |
| 66 | Chiral dynamics of the two $\hat{b}(1405)$ states. Nuclear Physics A, 2003, 725, 181-200. | 1.5 | 568 |
| 67 | The Lightest Scalar Nonet and Its Mixing Angle. AIP Conference Proceedings, 2003, , . | 0.4 | 0 |
| 68 | Nucleon-Nucleon interactions from effective field theory. AIP Conference Proceedings, 2003, , . | 0.4 | 0 |
| 69 | Chiral Lagrangians at finite density. Physical Review C, 2002, 65, . | 2.9 | 21 |
| 70 | Strangeness-changing scalar form factors. Nuclear Physics B, 2002, 622, 279-308. | 2.5 | 137 |
| 71 | In-medium Chiral Perturbation Theory beyond the Mean-Field Approximation. Annals of Physics, 2002, 297, 27-66. | 2.8 | 104 |
| 72 | 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 |

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|----|--|------|-----------|
| 73 | decays, chiral dynamics and OZI violation. Nuclear Physics A, 2001, 679, 671-697. | 1.5 | 112 |
| 74 | S-wave $\pi\pi$ phase shift is not large. Physical Review D, 2001, 64, . | 4.7 | 24 |
| 75 | Recent progress on the chiral unitary approach to meson meson and meson baryon interactions. Nuclear Physics A, 2000, 670, 111-118. | 1.5 | 1 |
| 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 | 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 |
| 78 | Chiral unitary meson $\pi\pi$ baryon dynamics in the presence of resonances: elastic pion $\pi\pi$ nucleon scattering. Nuclear Physics A, 2000, 673, 311-334. | 1.5 | 107 |
| 79 | Resonances, chiral symmetry, coupled channel unitarity and effective Lagrangians. Nuclear Physics A, 2000, 675, 92-95. | 1.5 | 7 |
| 80 | S-wave scattering in chiral perturbation theory with resonances. Nuclear Physics B, 2000, 587, 331-362. | 2.5 | 163 |
| 81 | Theoretical study of the $\pi^0\pi^0 \rightarrow \pi^+\pi^-$ meson-meson reaction. Nuclear Physics A, 1998, 629, 739-760. | 1.5 | 75 |
| 82 | Non-perturbative chiral approach to $K^+\pi^0 \rightarrow \pi^+\pi^0$ reactions. Nuclear Physics A, 1998, 643, 402-414. | 1.5 | 18 |
| 83 | Nonperturbative Approach to Effective Chiral Lagrangians and Meson Interactions. Physical Review Letters, 1998, 80, 3452-3455. | 7.8 | 299 |
| 84 | Meson exchange currents in kaon scattering on the lightest nuclei. Physical Review C, 1997, 55, 2985-2990. | 2.9 | 3 |
| 85 | Chiral symmetry amplitudes in the S-wave isoscalar and isovector channels and the $\pi\pi$, $f_0(980)$, $a_0(980)$ scalar mesons. Nuclear Physics A, 1997, 620, 438-456. | 1.5 | 624 |