

Apostolos Pilaftsis

List of Publications by Citations

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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.

83
papers

5,327
citations

34
h-index

72
g-index

88
ext. papers

5,802
ext. citations

4.2
avg, IF

6.35
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 83 | Resonant leptogenesis. <i>Nuclear Physics B</i> , 2004 , 692, 303-345 | 2.8 | 550 |
| 82 | CP violation and baryogenesis due to heavy Majorana neutrinos. <i>Physical Review D</i> , 1997 , 56, 5431-5451 | 4.9 | 483 |
| 81 | Higgs bosons in the minimal supersymmetric standard model with explicit CP violation. <i>Nuclear Physics B</i> , 1999 , 553, 3-42 | 2.8 | 336 |
| 80 | Neutrinos and collider physics. <i>New Journal of Physics</i> , 2015 , 17, 075019 | 2.9 | 296 |
| 79 | Electroweak-scale resonant leptogenesis. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 266 |
| 78 | Radiatively induced neutrino masses and large Higgs-neutrino couplings in the Standard Model with Majorana fields. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1992 , 55, 275-282 | | 260 |
| 77 | Higgs scalar-pseudoscalar mixing in the minimal supersymmetric Standard Model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 435, 88-100 | 4.2 | 229 |
| 76 | Resonant CP violation induced by particle mixing in transition amplitudes. <i>Nuclear Physics B</i> , 1997 , 504, 61-107 | 2.8 | 203 |
| 75 | HEAVY MAJORANA NEUTRINOS AND BARYOGENESIS. <i>International Journal of Modern Physics A</i> , 1999 , 14, 1811-1857 | 1.2 | 182 |
| 74 | Maximally symmetric two Higgs doublet model with natural standard model alignment. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 126 |
| 73 | Electric dipole moments in the MSSM reloaded. <i>Journal of High Energy Physics</i> , 2008 , 2008, 049-049 | 5.4 | 115 |
| 72 | Higgs-boson two-loop contributions to electric dipole moments in the MSSM. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 471, 174-181 | 4.2 | 113 |
| 71 | Minimal radiative neutrino mass mechanism for inverse seesaw models. <i>Physical Review D</i> , 2012 , 86, | 4.9 | 108 |
| 70 | Resonant tau leptogenesis with observable lepton number violation. <i>Physical Review Letters</i> , 2005 , 95, 081602 | 7.4 | 108 |
| 69 | New Production Mechanism for Heavy Neutrinos at the LHC. <i>Physical Review Letters</i> , 2014 , 112, | 7.4 | 107 |
| 68 | Flavour covariant transport equations: An application to resonant leptogenesis. <i>Nuclear Physics B</i> , 2014 , 886, 569-664 | 2.8 | 104 |
| 67 | The minimal scale invariant extension of the Standard Model. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1 | 5.4 | 99 |

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| 66 | The Hunt for New Physics at the Large Hadron Collider. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2010 , 200-202, 185-417 | | 99 |
| 65 | Gauge invariance and unstable particles. <i>Physical Review Letters</i> , 1995 , 75, 3060-3063 | 7.4 | 83 |
| 64 | Mixing renormalization in Majorana neutrino theories. <i>Nuclear Physics B</i> , 1996 , 474, 286-308 | 2.8 | 74 |
| 63 | Resonant CP violation due to heavy neutrinos at the LHC. <i>Nuclear Physics B</i> , 2007 , 786, 95-118 | 2.8 | 72 |
| 62 | Gauge-independent approach to resonant transition amplitudes. <i>Physical Review D</i> , 1996 , 53, 2128-2149 | 4.9 | 63 |
| 61 | Vacuum topology of the two Higgs doublet model. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 62 |
| 60 | Generalized pinch technique and the background field method in general gauges. <i>Nuclear Physics B</i> , 1997 , 487, 467-491 | 2.8 | 61 |
| 59 | CERN LHC signatures of resonant CP violation in a minimal supersymmetric Higgs sector. <i>Physical Review D</i> , 2004 , 70, | 4.9 | 59 |
| 58 | Kadanoff-Baym approach to flavour mixing and oscillations in resonant leptogenesis. <i>Nuclear Physics B</i> , 2015 , 891, 128-158 | 2.8 | 57 |
| 57 | Lepton flavor violation and $\mu\mu\mu$ in minimal resonant leptogenesis. <i>Physical Review D</i> , 2011 , 83, | 4.9 | 56 |
| 56 | Anatomy of FD-term hybrid inflation. <i>Journal of High Energy Physics</i> , 2006 , 2006, 038-038 | 5.4 | 52 |
| 55 | B-meson observables in the maximally CP-violating MSSM with minimal flavor violation. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 47 |
| 54 | Gauge- and renormalization-group-invariant formulation of the Higgs-boson resonance. <i>Physical Review D</i> , 1998 , 58, | 4.9 | 44 |
| 53 | Effective Charge of the Higgs Boson. <i>Physical Review Letters</i> , 1998 , 80, 2785-2788 | 7.4 | 37 |
| 52 | On the classification of accidental symmetries of the two Higgs doublet model potential. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 706, 465-469 | 4.2 | 36 |
| 51 | Symmetry-improved CJT effective action. <i>Nuclear Physics B</i> , 2013 , 874, 594-619 | 2.8 | 35 |
| 50 | Thermal right-handed sneutrino dark matter in the FD-term model of hybrid inflation. <i>Journal of High Energy Physics</i> , 2008 , 2008, 080-080 | 5.4 | 33 |
| 49 | Frame-covariant formulation of inflation in scalar-curvature theories. <i>Nuclear Physics B</i> , 2016 , 907, 785-818 | 5.4 | 32 |

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| 48 | Maximal electric dipole moments of nuclei with enhanced Schiff moments. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 31 |
| 47 | Electroweak resonant leptogenesis in the singlet Majoron model. <i>Physical Review D</i> , 2008 , 78, | 4-9 | 30 |
| 46 | Perturbative nonequilibrium thermal field theory. <i>Physical Review D</i> , 2013 , 88, | 4-9 | 28 |
| 45 | Frame covariant nonminimal multifield inflation. <i>Nuclear Physics B</i> , 2018 , 927, 219-254 | 2-8 | 27 |
| 44 | Charged lepton flavor violation in supersymmetric low-scale seesaw models. <i>Physical Review D</i> , 2013 , 87, | 4-9 | 27 |
| 43 | Diffraction as a CP and lineshape analyzer for MSSM Higgs bosons at the CERN LHC. <i>Physical Review D</i> , 2005 , 71, | 4-9 | 27 |
| 42 | Gauge and scheme dependence of mixing matrix renormalization. <i>Physical Review D</i> , 2002 , 65, | 4-9 | 27 |
| 41 | A geometric approach to CP violation: applications to the MCPMFV SUSY model. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1 | 5-4 | 24 |
| 40 | Symmetries for standard model alignment in multi-Higgs doublet models. <i>Physical Review D</i> , 2016 , 93, | 4-9 | 23 |
| 39 | Symmetry-improved 2PI approach to the Goldstone-boson IR problem of the SM effective potential. <i>Nuclear Physics B</i> , 2016 , 906, 381-407 | 2-8 | 22 |
| 38 | Radiative corrections to scalar masses and mixing in a scale invariant two Higgs doublet model. <i>Physical Review D</i> , 2012 , 86, | 4-9 | 22 |
| 37 | Resonant CP violation in Higgs radiation at an e+e-linear collider. <i>Physical Review D</i> , 2005 , 72, | 4-9 | 20 |
| 36 | Supersymmetric lepton flavor violation in low-scale seesaw models. <i>Physical Review D</i> , 2009 , 80, | 4-9 | 19 |
| 35 | The 1-loop effective potential in nonlinear gauges. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2009 , 36, 045006 | 2-9 | 15 |
| 34 | Perturbative non-equilibrium thermal field theory to all orders in gradient expansion. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 724, 56-62 | 4-2 | 14 |
| 33 | Classifying accidental symmetries in multi-Higgs doublet models. <i>Physical Review D</i> , 2020 , 101, | 4-9 | 13 |
| 32 | Mass bounds on light and heavy neutrinos from radiative minimal-flavor-violation leptogenesis. <i>Physical Review D</i> , 2015 , 92, | 4-9 | 13 |
| 31 | Supersymmetric Higgs singlet effects on B-meson flavor-changing neutral current observables at large tan β <i>Physical Review D</i> , 2008 , 78, | 4-9 | 13 |

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| 30 | Exact RG invariance and symmetry improved 2PI effective potential. <i>Nuclear Physics B</i> , 2017 , 920, 298-318 | 12 |
| 29 | Displacement operator formalism for renormalization and gauge dependence to all orders. <i>Physical Review D</i> , 2005 , 71, | 4.9 12 |
| 28 | Quantization and high energy unitarity of 5D orbifold theories with brane kinetic terms. <i>Physical Review D</i> , 2005 , 71, | 4.9 11 |
| 27 | Eisenhart lift for field theories. <i>Physical Review D</i> , 2018 , 98, | 4.9 10 |
| 26 | Quartic coupling unification in the maximally symmetric 2HDM. <i>Physical Review D</i> , 2019 , 99, | 4.9 10 |
| 25 | Protecting the stability of the electroweak vacuum from Planck-scale gravitational effects. <i>Physical Review D</i> , 2018 , 98, | 4.9 10 |
| 24 | Higgs-boson low-energy theorem and compatible gauge-fixing conditions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 422, 201-211 | 4.2 9 |
| 23 | Matter quantum corrections to the graviton self-energy and the Newtonian potential. <i>Physical Review D</i> , 2015 , 91, | 4.9 8 |
| 22 | Frame covariance in quantum gravity. <i>Physical Review D</i> , 2020 , 102, | 4.9 8 |
| 21 | CP violation in correlated production and decay of unstable particles. <i>Nuclear Physics B</i> , 2012 , 856, 682-693 | 8 |
| 20 | Natural Standard Model Alignment in the Two Higgs Doublet Model. <i>Journal of Physics: Conference Series</i> , 2015 , 631, 012030 | 0.3 7 |
| 19 | Flavour geometry and effective Yukawa couplings in the MSSM. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1 | 5.4 7 |
| 18 | Natural Alignment in the Two Higgs Doublet Model. <i>Journal of Physics: Conference Series</i> , 2017 , 873, 012008 | 0.3 6 |
| 17 | ANOMALOUS FERMION MASS GENERATION AT THREE LOOPS. <i>Modern Physics Letters A</i> , 2013 , 28, 1350083 | 0.3 6 |
| 16 | Advances in Leptogenesis. <i>Journal of Physics: Conference Series</i> , 2013 , 447, 012007 | 0.3 6 |
| 15 | Accidental symmetries in the 2HDMEFT. <i>Nuclear Physics B</i> , 2020 , 960, 115171 | 2.8 5 |
| 14 | Flavour effects in Resonant Leptogenesis from semi-classical and Kadanoff-Baym approaches. <i>Journal of Physics: Conference Series</i> , 2015 , 631, 012087 | 0.3 5 |
| 13 | Gauge-independent approach to resonant dark matter annihilation. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 4 |

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| 12 | Lepton dipole moments in supersymmetric low-scale seesaw models. <i>Physical Review D</i> , 2014 , 89, | 4.9 | 4 |
| 11 | Frame covariant formalism for fermionic theories. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 4 |
| 10 | Charged Higgs bosons in naturally aligned two-Higgs-doublet models at the LHC. <i>Physical Review D</i> , 2019 , 100, | 4.9 | 3 |
| 9 | Enhanced rates for diphoton resonances in the MSSM. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 765, 175-180 | 4.2 | 2 |
| 8 | Radiative neutrino masses in the \mathbf{RMSSM} . <i>Physical Review D</i> , 2020 , 102, | 4.9 | 2 |
| 7 | Flavour Covariant Formalism for Resonant Leptogenesis. <i>Nuclear and Particle Physics Proceedings</i> , 2016 , 273-275, 268-274 | 0.4 | 2 |
| 6 | Domain wall constraints on two-Higgs-doublet models with Z_2 symmetry. <i>Physical Review D</i> , 2020 , 102, | 4.9 | 2 |
| 5 | Quantizing the Eisenhart lift. <i>Physical Review D</i> , 2021 , 103, | 4.9 | 2 |
| 4 | Maximally symmetric two Higgs doublet model with natural standard model alignment 2014 , 2014, 1 | | 1 |
| 3 | Maximally symmetric three-Higgs-doublet model. <i>Physical Review D</i> , 2021 , 104, | 4.9 | 1 |
| 2 | Simulations of domain walls in Two Higgs Doublet Models. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 1 | Goldstone boson effects on vacuum decay. <i>Nuclear Physics B</i> , 2020 , 956, 115034 | 2.8 | |