Mariafelicia De Laurentis

List of Publications by Year
in descending order

103 papers	14,399 citations	61984 43 h-index	38395 95 g-index
105 all docs	105 docs citations	105 times ranked	4613 citing authors

#	Article	IF	Citations
1	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	4.5	6
2	Orbital precession of the S2 star in Scalarâ€“Tensorâ€“Vector Gravity. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4757-4766.	4.4	35
3	Constraining MOdified Gravity with the S2 Star. Universe, 2022, 8, 137.	2.5	7
4	The Accurate Mass Distribution of M87, the Giant Galaxy with Imaged Shadow of Its Supermassive Black Hole, as a Portal to New Physics. Astrophysical Journal, 2022, 929, 17.	4.5	5
5	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. Astrophysical Journal Letters, 2022, 930, L14.	8.3	163
6	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	8.3	20
7	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Astrophysical Journal Letters, 2022, 930, L17.	8.3	215
8	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. Astrophysical Journal Letters, 2022, 930, L13.	8.3	142
9	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	8.3	137
10	Orbits in bootstrapped Newtonian gravity. Physical Review D, 2022, 105, .	4.7	5
11	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. Astrophysical Journal Letters, 2022, 930, L12.	8.3	568
12	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	8.3	21
13	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	8.3	43
14	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	8.3	20
15	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. Astrophysical Journal Letters, 2022, 930, L16.	8.3	187
16	Emission of Gravitational Radiation in Scalar-Tensor and f(R)-Theories. , 2022, , 1553-1590.		0
17	Testing wormhole solutions in extended gravity through the Poynting-Robertson effect. Physical Review D, 2021, 103, .	4.7	39
18	Reconstructing wormhole solutions in curvature based Extended Theories of Gravity. European Physical Journal C, 2021, 81, 1.	3.9	47

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19	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	8.3	215
20	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67
21	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	8.3	297
22	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	8.3	56
23	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	4.5	43
24	Magnetized discs and photon rings around Yukawa-like black holes. Physical Review D, 2021, 103, .	4.7	15
25	Epicyclic frequencies in static and spherically symmetric wormhole geometries. Physical Review D, 2021, 104, .	4.7	34
26	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	10.1	65
27	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 417 Td [(stretchy="false")] S2 star around the Galactic Center massive black hole. Physical Review D, 2021, 104, .	4.7	34
28	Tracing the cosmic history by Gauss-Bonnet gravity. Physical Review D, 2020, 102, .	4.7	16
29	Verification of Radiative Transfer Schemes for the EHT. Astrophysical Journal, 2020, 897, 148.	4.5	44
30	General relativistic Poynting-Robertson effect to diagnose wormholes existence: Static and spherically symmetric case. Physical Review D, 2020, 101, .	4.7	45
31	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. Astrophysical Journal, 2020, 897, 139.	4.5	47
32	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. Astronomy and Astrophysics, 2020, 640, A69.	5.1	54
33	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. Astrophysical Journal, 2020, 901, 67.	4.5	51
34	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. Astrophysical Journal, Supplement Series, 2019, 243, 26.	7.7	175
35	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. Astrophysical Journal Letters, 2019, 875, L3.	8.3	519
36	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	8.3	618

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37	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L4.	8.3	806
38	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	8.3	2,264
39	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. Astrophysical Journal Letters, 2019, 875, L5.	8.3	814
40	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. Astrophysical Journal Letters, 2019, 875, L6.	8.3	897
41	The current ability to test theories of gravity with black hole shadows. Nature Astronomy, 2018, 2, 585-590.	10.1	180
42	Observational constraints on Gaussâ€“Bonnet cosmology. International Journal of Modern Physics D, 2018, 27, 1850084.	2.1	46
43	Noether's stars in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 205-210.	4.1	9
44	Radiation from charged particles due to explicit symmetry breaking in a gravitational field. International Journal of Geometric Methods in Modern Physics, 2018, 15, 1850122.	2.0	5
45	Modified gravity revealed along geodesic tracks. European Physical Journal C, 2018, 78, 916.	3.9	34
46	Test-particle dynamics in general spherically symmetric black hole spacetimes. Physical Review D, 2018, 97, .	4.7	43
47	Analysis of the Yukawa gravitational potential in f(R) gravity. I. Semiclassical periastron advance. Physical Review D, 2018, 97, .	4.7	44
48	Analysis of the Yukawa gravitational potential in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297 Td (stretchy="false"> 2018, 97, .	4.7	44
49	Gravitational Physics: From Quantum to Waves. , 2018, , 357-488.		0
50	On the universality of MOG weak field approximation at galaxy cluster scale. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 440-444.	4.1	20
51	General relativistic electromagnetic and massive vector field effects with gamma-ray burst production. Physical Review D, 2017, 96, .	4.7	9
52	The cosmological constant as an eigenvalue of the Hamiltonian constraint in a varying speed of light theory. Fortschritte Der Physik, 2017, 65, 1600108.	4.4	2
53	Twisted Soft Photon Hair Implants on Black Holes. Entropy, 2017, 19, 458.	2.2	9
54	An effective field theory description for extended gravity. , 2017, , .		0

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55	Verification of f(R)-gravity in binary pulsars. EPJ Web of Conferences, 2016, 125, 03005.	0.3	4
56	Noether symmetries in Gaussâ€“Bonnet-teleparallel cosmology. European Physical Journal C, 2016, 76, 629.	3.9	61
57	Constraining alternative theories of gravity using GW150914 and GW151226. Physical Review D, 2016, 94, .	4.7	21
58	Gravitational massive modes from extended gravity. International Journal of Geometric Methods in Modern Physics, 2016, 13, 1650034.	2.0	1
59	f(T) teleparallel gravity and cosmology. Reports on Progress in Physics, 2016, 79, 106901.	20.1	923
60	Metric and connections in theories of gravity. The role of equivalence principle. International Journal of Geometric Methods in Modern Physics, 2016, 13, 1640007.	2.0	1
61	Mass-radius relation for neutron stars in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 492 Td (stretchy="false"	4.7	207
62	EXTENDED GRAVITY: STATE OF THE ART AND PERSPECTIVES. , 2015, , .		0
63	FROM BLACK HOLE QUANTIZATION TO UNIVERSAL SCALING LAWS. , 2015, , .		0
64	Cosmological inflation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>F</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo>,</mml:mo><mml:mi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 37 Td (math Review D, 2015, 91, .	4.7	137
65	Noether symmetry approach for teleparallel-curvature cosmology. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550095.	2.0	25
66	Constraining Æ'(R) Gravity by the Large-Scale Structure. Universe, 2015, 1, 123-157.	2.5	61
67	Effective field theory from modified gravity with massive modes. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550004.	2.0	9
68	Interpreting the Dark Side of the Universe as Curvature Effects. Nuclear and Particle Physics Proceedings, 2015, 263-264, 113-118.	0.5	4
69	Invariant solutions and Noether symmetries in hybrid gravity. Physical Review D, 2015, 91, .	4.7	64
70	Probing the physical and mathematical structure of f(R)-gravity by PSR J0348 + 0432. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550040.	2.0	25
71	Noether symmetry approach for Diracâ€“Bornâ€“Infeld cosmology. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550065.	2.0	13
72	Topological invariant quintessence. Modern Physics Letters A, 2015, 30, 1550069.	1.2	18

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73	Connecting early and late universe by f(R) gravity. International Journal of Modern Physics D, 2015, 24, 1541002.	2.1	48
74	Probing Gravitational Theories with Eccentric Eclipsing Detached Binary Stars. Acta Polytechnica CTU Proceedings, 2014, 1, 255-258.	0.3	0
75	Noether symmetries in extended gravity quantum cosmology. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1460004.	2.0	48
76	Newtonian, Post-Newtonian and Parametrized Post-Newtonian limits of f(R, ?) gravity. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1450082.	2.0	55
77	Curvature dark energy reconstruction through different cosmographic distance definitions. Annalen Der Physik, 2014, 526, 309-317.	2.4	11
78	The affine structure of gravitational theories: Symplectic groups and geometry. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1450081.	2.0	13
79	Noether symmetry approach in Gaussâ€“Bonnet cosmology. Modern Physics Letters A, 2014, 29, 1450164.	1.2	77
80	Generating the Mass of Particles from Extended Theories of Gravity. Springer Proceedings in Physics, 2014, , 15-28.	0.2	0
81	Testing f(R)-Theories by Binary Pulsars. Acta Polytechnica CTU Proceedings, 2014, 1, 251-254.	0.3	0
82	No further gravitational wave modes in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>F</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>T</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 194-198.	4.1	111
83	Testing fâ€‰(R) theories using the first time derivative of the orbital period of the binary pulsars. Monthly Notices of the Royal Astronomical Society, 2013, 431, 741-748.	4.4	55
84	Weak gravitational lensing by compact objects in fourth order gravity. Physical Review D, 2013, 88, .	4.7	8
85	Cosmographic Constraints and Cosmic Fluids. Galaxies, 2013, 1, 216-260.	3.0	93
86	Running coupling in electroweak interactions of leptons from f(R)-gravity with torsion. European Physical Journal C, 2012, 72, 1.	3.9	18
87	Extended Theories of Gravity. Physics Reports, 2011, 509, 167-321.	25.6	2,457
88	Deriving the mass of particles from Extended Theories of Gravity in LHC era. European Physical Journal C, 2011, 71, 1.	3.9	23
89	MOND'S ACCELERATION SCALE AS A FUNDAMENTAL QUANTITY. Modern Physics Letters A, 2011, 26, 2677-2687.	1.2	19
90	PRIMORDIAL BLACK HOLES, ASTROPHYSICAL SYSTEMS AND THE EDDINGTONâ€“WEINBERG RELATION. Modern Physics Letters A, 2011, 26, 2549-2558.	1.2	6

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91	Astrophysical structures from primordial quantum black holes. European Physical Journal C, 2010, 69, 293-303.	3.9	14
92	Massive, massless and ghost modes of gravitational waves from higher-order gravity. Astroparticle Physics, 2010, 34, 236-244.	4.3	97
93	NEUTRINO OSCILLATION PHASE DYNAMICALLY INDUCED BY f(R)-GRAVITY. Modern Physics Letters A, 2010, 25, 1163-1168.	1.2	4
94	Axially symmetric solutions in f (R)-gravity. Classical and Quantum Gravity, 2010, 27, 165008.	4.0	104
95	A Bird's Eye View of f (R)-Gravity. The Open Astronomy Journal, 2010, 3, 49-72.	1.6	39
96	A Bird`s Eye View of f (R)-Gravity~!2009-09-23~!2009-09-28~!2010-06-03~!. The Open Astronomy Journal, 2010, 3, 49-72.	1.6	24
97	Stochastic Background of Relic Scalar Gravitational Waves tuned by Extended Gravity. Nuclear Physics, Section B, Proceedings Supplements, 2009, 194, 212-217.	0.4	6
98	Position and frequency shifts induced by massive modes of the gravitational wave background in alternative gravity. Physical Review D, 2009, 79, .	4.7	28
99	Higher-order gravity and the cosmological background of gravitational waves. Astroparticle Physics, 2008, 29, 125-129.	4.3	51
100	GRAVITATIONAL WAVES FROM HYPERBOLIC ENCOUNTERS. Modern Physics Letters A, 2008, 23, 99-107.	1.2	29
101	Tuning the stochastic background of gravitational waves with theory and observations. AIP Conference Proceedings, 2008, , .	0.4	1
102	STOCHASTIC BACKGROUND OF GRAVITATIONAL WAVES "TUNED" BY f(R) GRAVITY. Modern Physics Letters A, 2007, 22, 1097-1104.	1.2	26
103	STOCHASTIC BACKGROUND OF RELIC SCALAR GRAVITATIONAL WAVES FROM SCALARâ€"TENSOR GRAVITY. Modern Physics Letters A, 2007, 22, 2647-2655.	1.2	29