JosÃ© Manuel RodrÃ-guez

List of Publications by Year
in descending order

126	1,196	394286	501076
papers	citations	19 h-index	28 g-index

128	128	128	264
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On p-parabolicity of Riemannian manifolds and graphs. Revista Matematica Complutense, 2022, 35, 179-198.	0.7	1
2	New lower bounds for the first variable Zagreb index. Discrete Applied Mathematics, 2022, 306, 166-173.	0.5	5
3	Extremal problems on the general Sombor index of a graph. AIMS Mathematics, 2022, 7, 8330-8343.	0.7	5
4	Stability of p â€parabolicity under quasiâ€isometries. Mathematische Nachrichten, 2022, 295, 536-559.	0.4	1
5	Fractional model for the study of the tuberculosis in Mexico. Mathematical Methods in the Applied Sciences, 2022, 45, 10675-10688.	1.2	3
6	Analytical and computational properties of the variable symmetric division deg index. Mathematical Biosciences and Engineering, 2022, 19, 8908-8922.	1.0	0
7	Isoperimetric Inequalities in Riemann Surfaces and Graphs. Journal of Geometric Analysis, 2021, 31, 3583-3607.	0.5	2
8	LupaÅŸ-type inequality and applications to Markov-type inequalities in weighted Sobolev spaces. Bulletin of Mathematical Sciences, 2021, 11, 1950022.	0.5	0
9	Topological Indices and f-Polynomials on Some Graph Products. Symmetry, 2021, 13, 292.	1.1	1
10	Inequalities on the generalized atom bond connectivity index. Journal of Mathematical Chemistry, 2021, 59, 775-791.	0.7	0
11	Analytical and statistical studies of Rodriguezâ€“Velazquez indices. Journal of Mathematical Chemistry, 2021, 59, 1246-1259.	0.7	4
12	Bounds on the Arithmetic-Geometric Index. Symmetry, 2021, 13, 689.	1.1	9
13	On the Generalized Laplace Transform. Symmetry, 2021, 13, 669.	1.1	6
14	Inequalities on the Generalized ABC Index. Mathematics, 2021, 9, 1151.	1.1	2
15	Some Properties of the Arithmeticâ€“Geometric Index. Symmetry, 2021, 13, 857.	1.1	10
16	A note on isoperimetric inequalities of Gromov hyperbolic manifolds and graphs. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1.	0.6	1
17	Normalized Sombor Indices as Complexity Measures of Random Networks. Entropy, 2021, 23, 976.	1.1	10
18	General properties on Sombor indices. Discrete Applied Mathematics, 2021, 299, 87-97.	0.5	30

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19	Geometric properties of chemical graphs. International Journal of Quantum Chemistry, 2021, 121, e26798.	1.0	1
20	A decomposition for plane domains with the quasihyperbolic metric. Journal of Mathematical Analysis and Applications, 2021, 502, 125227.	0.5	0
21	Generalized inequalities involving fractional operators of the Riemann-Liouville type. AIMS Mathematics, 2021, 7, 1470-1485.	0.7	6
22	Stability of the volume growth rate under quasi-isometries. Revista Matematica Complutense, 2020, 33, 231-270.	0.7	4
23	On the conformable fractional logistic models. Mathematical Methods in the Applied Sciences, 2020, 43, 4156.	1.2	9
24	New Bounds for Topological Indices on Trees through Generalized Methods. Symmetry, 2020, 12, 1097.	1.1	2
25	On the maximal general ABC index of graphs with given maximum degree. Applied Mathematics and Computation, 2020, 386, 125531.	1.4	6
26	Domination on hyperbolic graphs. Discrete Mathematics, 2020, 343, 112094.	0.4	1
27	ANALYSIS OF DENGUE FEVER OUTBREAK BY GENERALIZED FRACTIONAL DERIVATIVE. Fractals, 2020, 28, 2040038.	1.8	7
28	Gromov Hyperbolicity in Directed Graphs. Symmetry, 2020, 12, 105.	1.1	1
29	Computational and analytical studies of the RandiÄ‡ index in ErdÃ¶sâ€“RÃ©nyi models. Applied Mathematics and Computation, 2020, 377, 125137.	1.4	21
30	Several extremal problems on graphs involving the circumference, girth, and hyperbolicity constant. Discrete Applied Mathematics, 2019, 263, 177-194.	0.5	2
31	Analysis of the local Drude model involving the generalized fractional derivative. Optik, 2019, 193, 163008.	1.4	14
32	New Hermiteâ€“Hadamard Type Inequalities Involving Non-Conformable Integral Operators. Symmetry, 2019, 11, 1108.	1.1	32
33	Gromov hyperbolicity in lexicographic product graphs. Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 2019, 129, 1.	0.2	1
34	Some results on lower bounds for topological indices. Journal of Mathematical Chemistry, 2019, 57, 1472-1495.	0.7	6
35	Escaping geodesics in Riemannian surfaces with variable negative curvature. Advances in Mathematics, 2019, 345, 928-971.	0.5	4
36	Inequalities on the inverse degree index. Journal of Mathematical Chemistry, 2019, 57, 1524-1542.	0.7	8

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37	f-Polynomial on Some Graph Operations. Mathematics, 2019, 7, 1074.	1.1	4
38	On the Inverse Degree Polynomial. Symmetry, 2019, 11, 1490.	1.1	0
39	Linear and non-linear inequalities on the inverse sum indeg index. Discrete Applied Mathematics, 2019, 258, 123-134.	0.5	12
40	On the hyperbolicity constant of circular-arc graphs. Discrete Applied Mathematics, 2019, 263, 244-256.	0.5	2
41	New lower bounds for the second variable Zagreb index. Journal of Combinatorial Optimization, 2018, 36, 194-210.	0.8	3
42	Weighted Sobolev spaces: Markov-type inequalities and duality. Bulletin of Mathematical Sciences, 2018, 8, 233-256.	0.5	3
43	Stability of the injectivity radius under quasi-isometries and applications to isoperimetric inequalities. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2018, 112, 1225-1247.	0.6	5
44	CMMSE: A new approximation to the geometricâ€“arithmetic index. Journal of Mathematical Chemistry, 2018, 56, 1865-1883.	0.7	13
45	CMMSE-on the first general Zagreb index. Journal of Mathematical Chemistry, 2018, 56, 1849-1864.	0.7	16
46	Cheeger isoperimetric constant of Gromov hyperbolic manifolds and graphs. Communications in Contemporary Mathematics, 2018, 20, 1750050.	0.6	9
47	Harmonic Index and Harmonic Polynomial on Graph Operations. Symmetry, 2018, 10, 456.	1.1	6
48	Hyperbolicity of Direct Products of Graphs. Symmetry, 2018, 10, 279.	1.1	1
49	Hyperbolicity on Graph Operators. Symmetry, 2018, 10, 360.	1.1	6
50	On the Hyperbolicity Constant in Graph Minors. Bulletin of the Iranian Mathematical Society, 2018, 44, 481-503.	0.4	1
51	Gromov Hyperbolicity in the Cartesian Sum of Graphs. Bulletin of the Iranian Mathematical Society, 2018, 44, 837-856.	0.4	1
52	On the exponent of convergence of negatively curved manifolds without Greenâ€™s function. Publicacions Matematiques, 2018, 62, 177-183.	0.2	0
53	Alliance polynomial of regular graphs. Discrete Applied Mathematics, 2017, 225, 22-32.	0.5	1
54	The hyperbolicity constant of infinite circulant graphs. Open Mathematics, 2017, 15, 800-814.	0.5	0

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55	On a classical theorem on the diameter and minimum degree of a graph. Acta Mathematica Sinica, English Series, 2017, 33, 1477-1503.	0.2	5
56	Planar Riemann surfaces with uniformly distributed cusps: parabolicity and hyperbolicity. Mathematische Nachrichten, 2017, 290, 1097-1112.	0.4	2
57	On the geometricâ€“arithmetic index by decompositions-CMMSE. Journal of Mathematical Chemistry, 2017, 55, 1376-1391.	0.7	5
58	Mathematical Properties on the Hyperbolicity of Interval Graphs. Symmetry, 2017, 9, 255.	1.1	3
59	Gromov Hyperbolicity in Mycielskian Graphs. Symmetry, 2017, 9, 131.	1.1	4
60	Diameter, minimum degree and hyperbolicity constant in graphs. Electronic Notes in Discrete Mathematics, 2016, 55, 181-184.	0.4	0
61	Small values of the hyperbolicity constant in graphs. Discrete Mathematics, 2016, 339, 3073-3084.	0.4	15
62	Bounds on Gromov hyperbolicity constant. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2016, 110, 321-342.	0.6	4
63	Gromov Hyperbolicity of Periodic Graphs. Bulletin of the Malaysian Mathematical Sciences Society, 2016, 39, 89-116.	0.4	3
64	Spectral properties of geometricâ€“arithmetic index. Applied Mathematics and Computation, 2016, 277, 142-153.	1.4	59
65	Zeros of Sobolev Orthogonal Polynomials via Muckenhoupt Inequality with Three Measures. Acta Applicandae Mathematicae, 2016, 142, 9-37.	0.5	2
66	On the hyperbolicity of edge-chordal and path-chordal graphs. Filomat, 2016, 30, 2599-2607.	0.2	9
67	Quasi-isometries and isoperimetric inequalities in planar domains. Journal of the Mathematical Society of Japan, 2015, 67, .	0.3	10
68	Mathematical Properties of the Hyperbolicity of Circulant Networks. Advances in Mathematical Physics, 2015, 2015, 1-11.	0.4	5
69	Planarity and Hyperbolicity in Graphs. Graphs and Combinatorics, 2015, 31, 1311-1324.	0.2	3
70	Hyperbolicity in the corona and join of graphs. Aequationes Mathematicae, 2015, 89, 1311-1327.	0.4	12
71	Gromov hyperbolicity of periodic planar graphs. Acta Mathematica Sinica, English Series, 2014, 30, 79-90.	0.2	5
72	Computing the hyperbolicity constant of a cubic graph. International Journal of Computer Mathematics, 2014, 91, 1897-1910.	1.0	5

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73	Bounds on the Hyperbolicity Constant. Electronic Notes in Discrete Mathematics, 2014, 46, 137-144.	0.4	0
74	Characterization of the hyperbolicity in the lexicographic product. Electronic Notes in Discrete Mathematics, 2014, 46, 97-104.	0.4	0
75	Distinctive power of the alliance polynomial for regular graphs. Electronic Notes in Discrete Mathematics, 2014, 46, 313-320.	0.4	3
76	Isoperimetric inequalities in graphs and surfaces. Electronic Notes in Discrete Mathematics, 2014, 46, 257-264.	0.4	0
77	Measurable diagonalization of positive definite matrices. Journal of Approximation Theory, 2014, 185, 91-97.	0.5	1
78	Graphs with small hyperbolicity constant. Electronic Notes in Discrete Mathematics, 2014, 46, 265-272.	0.4	1
79	Characterization of Gromov hyperbolic short graphs. Acta Mathematica Sinica, English Series, 2014, 30, 197-212.	0.2	8
80	Relations between the differential and parameters in graphs. Electronic Notes in Discrete Mathematics, 2014, 46, 281-288.	0.4	7
81	Distortion of the hyperbolicity constant in minor graphs. Electronic Notes in Discrete Mathematics, 2014, 46, 57-64.	0.4	5
82	The topology of balls in Riemannian surfaces and Gromov hyperbolicity. Mathematische Zeitschrift, 2013, 275, 741-760.	0.4	1
83	Gromov hyperbolic graphs. Discrete Mathematics, 2013, 313, 1575-1585.	0.4	47
84	Muckenhoupt inequality with three measures and applications to Sobolev orthogonal polynomials. Journal of Mathematical Analysis and Applications, 2013, 407, 369-386.	0.5	4
85	Concerning Asymptotic Behavior for Extremal Polynomials Associated to Nondiagonal Sobolev Norms. Journal of Function Spaces and Applications, 2013, 2013, 1-11.	0.5	6
86	Gromov Hyperbolicity in Strong Product Graphs. Electronic Journal of Combinatorics, 2013, 20, .	0.2	11
87	Gromov hyperbolicity of Denjoy domains with hyperbolic and quasihyperbolic metrics. Journal of the Mathematical Society of Japan, 2012, 64, .	0.3	16
88	Location of geodesics and isoperimetric inequalities in Denjoy domains. Proceedings of the Edinburgh Mathematical Society, 2012, 55, 245-269.	0.2	1
89	Gromov hyperbolic cubic graphs. Central European Journal of Mathematics, 2012, 10, 1141-1151.	0.7	26
90	Bounds on Gromov hyperbolicity constant in graphs. Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 2012, 122, 53-65.	0.2	10

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91	Structure theorem for Riemannian surfaces with arbitrary curvature. Mathematische Zeitschrift, 2012, 271, 45-62.	0.4	5
92	Distortion of the Hyperbolicity Constant of a Graph. Electronic Journal of Combinatorics, 2012, 19, .	0.2	10
93	Gromov hyperbolicity of Denjoy domains through fundamental domains. Publicationes Mathematicae, 2012, 80, 295-310.	0.1	1
94	Computing the hyperbolicity constant. Computers and Mathematics With Applications, 2011, 62, 4592-4595.	1.4	41
95	Twists and Gromov hyperbolicity of riemann surfaces. Acta Mathematica Sinica, English Series, 2011, 27, 29-44.	0.2	5
96	Uniformly Separated Sets and Gromov Hyperbolicity of Domains with the Quasihyperbolic Metric. Mediterranean Journal of Mathematics, 2011, 8, 49-67.	0.4	13
97	Hyperbolicity and complement of graphs. Applied Mathematics Letters, 2011, 24, 1882-1887.	1.5	34
98	On the hyperbolicity constant in graphs. Discrete Mathematics, 2011, 311, 211-219.	0.4	46
99	On the Hyperbolicity Constant of Line Graphs. Electronic Journal of Combinatorics, 2011, 18, .	0.2	26
100	A VERY SIMPLE CHARACTERIZATION OF GROMOV HYPERBOLICITY FOR A SPECIAL KIND OF DENJOY DOMAINS. Journal of the Korean Mathematical Society, 2011, 48, 565-583.	0.4	0
101	Computation of conformal representations of compact Riemann surfaces. Mathematics of Computation, 2010, 79, 365-365.	1.1	7
102	The Multiplication Operator, Zero Location andÂAsymptotic for Non-diagonal Sobolev Norms. Acta Applicandae Mathematicae, 2010, 111, 205-218.	0.5	6
103	Gromov hyperbolicity in Cartesian product graphs. Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 2010, 120, 593-609.	0.2	23
104	Zero location and asymptotic behavior for extremal polynomials with non-diagonal Sobolev norms. Journal of Approximation Theory, 2010, 162, 2225-2242.	0.5	7
105	Gromov hyperbolic equivalence of the hyperbolic and quasihyperbolic metrics in Denjoy domains. Bulletin of the London Mathematical Society, 2010, 42, 282-294.	0.4	23
106	Comparative Gromov hyperbolicity results for the hyperbolic and quasihyperbolic metrics. Complex Variables and Elliptic Equations, 2010, 55, 127-135.	0.4	7
107	Mathematical Properties of Gromov Hyperbolic Graphs. , 2010, , .		7
108	Sobolev Spaces with Respect to Measures in Curves andÂZeros of Sobolev Orthogonal Polynomials. Acta Applicandae Mathematicae, 2008, 104, 325-353.	0.5	7

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109	A simple characterization of weighted Sobolev spaces with bounded multiplication operator. Journal of Approximation Theory, 2008, 153, 53-72.	0.5	8
110	Weighted Weierstrass' theorem with first derivatives. Journal of Mathematical Analysis and Applications, 2007, 334, 1167-1198.	0.5	6
111	Gromov hyperbolicity of Denjoy Domains. Geometriae Dedicata, 2007, 121, 221-245.	0.1	20
112	Gromov Hyperbolicity of Riemann Surfaces. Acta Mathematica Sinica, English Series, 2007, 23, 209-228.	0.2	37
113	Weierstrass's Theorem in Weighted Sobolev Spaces With k Derivatives. Rocky Mountain Journal of Mathematics, 2007, 37, .	0.2	7
114	THE ROLE OF FUNNELS AND PUNCTURES IN THE GROMOV HYPERBOLICITY OF RIEMANN SURFACES. Proceedings of the Edinburgh Mathematical Society, 2006, 49, 399-425.	0.2	11
115	A Kolmogorov-Szego-Krein type condition for weighted Sobolev spaces. Indiana University Mathematics Journal, 2005, 54, 575-598.	0.4	5
116	STRUCTURE THEOREMS FOR RIEMANN AND TOPOLOGICAL SURFACES. Journal of the London Mathematical Society, 2004, 69, 153-168.	0.5	19
117	Generalized Weighted Sobolev Spaces and Applications to Sobolev Orthogonal Polynomials I. Acta Applicandae Mathematicae, 2004, 80, 273-308.	0.5	18
118	Gromov hyperbolicity through decomposition of metric spaces. Acta Mathematica Hungarica, 2004, 103, 107-138.	0.3	46
119	Gromov hyperbolicity through decomposition of metrics spaces II. Journal of Geometric Analysis, 2004, 14, 123-149.	0.5	48
120	Weierstrassâ€™ theorem with weights. Journal of Approximation Theory, 2004, 127, 83-107.	0.5	9
121	Weighted Sobolev Spaces on Curves. Journal of Approximation Theory, 2002, 119, 41-85.	0.5	17
122	Estimates for nonlinear harmonic `measures'' on trees. Michigan Mathematical Journal, 2001, 49, 47.	0.2	21
123	On Harmonic Functions on Trees. Potential Analysis, 2001, 15, 199-244.	0.4	25
124	Distortion of boundary sets under inner functions. II. Pacific Journal of Mathematics, 1996, 172, 49-81.	0.2	4
125	Area growth and Green's function of Riemann surfaces. Arkiv for Matematik, 1992, 30, 83-92.	0.2	21
126	Note on the generalized conformable derivative. Revista De La Union Matematica Argentina, 0, , 443-457.	0.0	8