

Jos Manuel Rodrguez

List of Publications by Year in Descending Order

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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.

121
papers

847
citations

15
h-index

22
g-index

128
ext. papers

952
ext. citations

1.3
avg, IF

4.7
L-index

#	Paper	IF	Citations
121	New lower bounds for the first variable Zagreb index. <i>Discrete Applied Mathematics</i> , 2022 , 306, 166-173	1	0
120	Extremal problems on the general Sombor index of a graph. <i>AIMS Mathematics</i> , 2022 , 7, 8330-8343	2.2	1
119	Stability of p -parabolicity under quasi-isometries. <i>Mathematische Nachrichten</i> , 2022 , 295, 536-559	0.8	0
118	Generalized inequalities involving fractional operators of the Riemann-Liouville type. <i>AIMS Mathematics</i> , 2021 , 7, 1470-1485	2.2	3
117	Bounds on the Arithmetic-Geometric Index. <i>Symmetry</i> , 2021 , 13, 689	2.7	4
116	On the Generalized Laplace Transform. <i>Symmetry</i> , 2021 , 13, 669	2.7	2
115	Inequalities on the Generalized ABC Index. <i>Mathematics</i> , 2021 , 9, 1151	2.3	1
114	Some Properties of the Arithmetic-Geometric Index. <i>Symmetry</i> , 2021 , 13, 857	2.7	5
113	A note on isoperimetric inequalities of Gromov hyperbolic manifolds and graphs. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2021 , 115, 1	1.6	
112	Normalized Sombor Indices as Complexity Measures of Random Networks. <i>Entropy</i> , 2021 , 23,	2.8	4
111	Isoperimetric Inequalities in Riemann Surfaces and Graphs. <i>Journal of Geometric Analysis</i> , 2021 , 31, 3583-3607	2.9	1
110	Lupaşcu inequality and applications to Markov-type inequalities in weighted Sobolev spaces. <i>Bulletin of Mathematical Sciences</i> , 2021 , 11, 1950022	0.9	
109	Topological Indices and f -Polynomials on Some Graph Products. <i>Symmetry</i> , 2021 , 13, 292	2.7	1
108	Inequalities on the generalized atom bond connectivity index. <i>Journal of Mathematical Chemistry</i> , 2021 , 59, 775-791	2.1	
107	Analytical and statistical studies of Rodríguez-Velázquez indices. <i>Journal of Mathematical Chemistry</i> , 2021 , 59, 1246-1259	2.1	1
106	General properties on Sombor indices. <i>Discrete Applied Mathematics</i> , 2021 , 299, 87-97	1	8
105	Geometric properties of chemical graphs. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26798	2.1	0

104	A decomposition for plane domains with the quasihyperbolic metric. <i>Journal of Mathematical Analysis and Applications</i> , 2021 , 502, 125227	1.1	
103	Domination on hyperbolic graphs. <i>Discrete Mathematics</i> , 2020 , 343, 112094	0.7	1
102	ANALYSIS OF DENGUE FEVER OUTBREAK BY GENERALIZED FRACTIONAL DERIVATIVE. <i>Fractals</i> , 2020 , 28, 2040038	3.2	3
101	Gromov Hyperbolicity in Directed Graphs. <i>Symmetry</i> , 2020 , 12, 105	2.7	1
100	Computational and analytical studies of the Randić Index in Erdős-Rényi models. <i>Applied Mathematics and Computation</i> , 2020 , 377, 125137	2.7	11
99	On the conformable fractional logistic models. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 4156	2.3	4
98	New Bounds for Topological Indices on Trees through Generalized Methods. <i>Symmetry</i> , 2020 , 12, 1097	2.7	1
97	On the maximal general ABC index of graphs with given maximum degree. <i>Applied Mathematics and Computation</i> , 2020 , 386, 125531	2.7	5
96	Stability of the volume growth rate under quasi-isometries. <i>Revista Matemática Complutense</i> , 2020 , 33, 231-270	0.8	2
95	New Hermite-Hadamard Type Inequalities Involving Non-Conformable Integral Operators. <i>Symmetry</i> , 2019 , 11, 1108	2.7	10
94	Gromov hyperbolicity in lexicographic product graphs. <i>Proceedings of the Indian Academy of Sciences: Mathematical Sciences</i> , 2019 , 129, 1	0.4	1
93	Some results on lower bounds for topological indices. <i>Journal of Mathematical Chemistry</i> , 2019 , 57, 1472-1495	2.1	5
92	Escaping geodesics in Riemannian surfaces with variable negative curvature. <i>Advances in Mathematics</i> , 2019 , 345, 928-971	1.3	3
91	Inequalities on the inverse degree index. <i>Journal of Mathematical Chemistry</i> , 2019 , 57, 1524-1542	2.1	8
90	Several extremal problems on graphs involving the circumference, girth, and hyperbolicity constant. <i>Discrete Applied Mathematics</i> , 2019 , 263, 177-194	1	1
89	Analysis of the local Drude model involving the generalized fractional derivative. <i>Optik</i> , 2019 , 193, 163008	2.5	7
88	f-Polynomial on Some Graph Operations. <i>Mathematics</i> , 2019 , 7, 1074	2.3	1
87	On the Inverse Degree Polynomial. <i>Symmetry</i> , 2019 , 11, 1490	2.7	

86	Linear and non-linear inequalities on the inverse sum indeg index. <i>Discrete Applied Mathematics</i> , 2019 , 258, 123-134	1	7
85	On the hyperbolicity constant of circular-arc graphs. <i>Discrete Applied Mathematics</i> , 2019 , 263, 244-256	1	2
84	New lower bounds for the second variable Zagreb index. <i>Journal of Combinatorial Optimization</i> , 2018 , 36, 194-210	0.9	2
83	Weighted Sobolev spaces: Markov-type inequalities and duality. <i>Bulletin of Mathematical Sciences</i> , 2018 , 8, 233-256	0.9	3
82	Stability of the injectivity radius under quasi-isometries and applications to isoperimetric inequalities. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2018 , 112, 1225-1247	1.6	5
81	CMMSE: A new approximation to the geometric-arithmetic index. <i>Journal of Mathematical Chemistry</i> , 2018 , 56, 1865-1883	2.1	10
80	CMMSE-on the first general Zagreb index. <i>Journal of Mathematical Chemistry</i> , 2018 , 56, 1849-1864	2.1	12
79	Cheeger isoperimetric constant of Gromov hyperbolic manifolds and graphs. <i>Communications in Contemporary Mathematics</i> , 2018 , 20, 1750050	1.1	7
78	Gromov Hyperbolicity in the Cartesian Sum of Graphs 2018 , 44, 837-856		1
77	Harmonic Index and Harmonic Polynomial on Graph Operations. <i>Symmetry</i> , 2018 , 10, 456	2.7	5
76	Hyperbolicity of Direct Products of Graphs. <i>Symmetry</i> , 2018 , 10, 279	2.7	1
75	Hyperbolicity on Graph Operators. <i>Symmetry</i> , 2018 , 10, 360	2.7	3
74	On the Hyperbolicity Constant in Graph Minors 2018 , 44, 481-503		1
73	Alliance polynomial of regular graphs. <i>Discrete Applied Mathematics</i> , 2017 , 225, 22-32	1	1
72	The hyperbolicity constant of infinite circulant graphs. <i>Open Mathematics</i> , 2017 , 15, 800-814	0.8	
71	On a classical theorem on the diameter and minimum degree of a graph. <i>Acta Mathematica Sinica, English Series</i> , 2017 , 33, 1477-1503	0.6	3
70	Gromov Hyperbolicity in Mycielskian Graphs. <i>Symmetry</i> , 2017 , 9, 131	2.7	2
69	Planar Riemann surfaces with uniformly distributed cusps: parabolicity and hyperbolicity. <i>Mathematische Nachrichten</i> , 2017 , 290, 1097-1112	0.8	1

68	On the geometric arithmetic index by decompositions-CMMSE. <i>Journal of Mathematical Chemistry</i> , 2017 , 55, 1376-1391	2.1	4
67	Mathematical Properties on the Hyperbolicity of Interval Graphs. <i>Symmetry</i> , 2017 , 9, 255	2.7	2
66	Zeros of Sobolev Orthogonal Polynomials via Muckenhoupt Inequality with Three Measures. <i>Acta Applicandae Mathematicae</i> , 2016 , 142, 9-37	1.1	2
65	Bounds on Gromov hyperbolicity constant. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2016 , 110, 321-342	1.6	3
64	Gromov Hyperbolicity of Periodic Graphs. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2016 , 39, 89-116	1.2	3
63	Spectral properties of geometric arithmetic index. <i>Applied Mathematics and Computation</i> , 2016 , 277, 142-153	2.7	41
62	On the hyperbolicity of edge-chordal and path-chordal graphs. <i>Filomat</i> , 2016 , 30, 2599-2607	0.7	9
61	Diameter, minimum degree and hyperbolicity constant in graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2016 , 55, 181-184	0.3	
60	Small values of the hyperbolicity constant in graphs. <i>Discrete Mathematics</i> , 2016 , 339, 3073-3084	0.7	13
59	Hyperbolicity in the corona and join of graphs. <i>Aequationes Mathematicae</i> , 2015 , 89, 1311-1327	0.7	10
58	Quasi-isometries and isoperimetric inequalities in planar domains. <i>Journal of the Mathematical Society of Japan</i> , 2015 , 67,	1.1	8
57	Mathematical Properties of the Hyperbolicity of Circulant Networks. <i>Advances in Mathematical Physics</i> , 2015 , 2015, 1-11	1.1	4
56	Planarity and Hyperbolicity in Graphs. <i>Graphs and Combinatorics</i> , 2015 , 31, 1311-1324	0.5	2
55	Computing the hyperbolicity constant of a cubic graph. <i>International Journal of Computer Mathematics</i> , 2014 , 91, 1897-1910	1.2	3
54	Bounds on the Hyperbolicity Constant. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 137-144	0.3	
53	Characterization of the hyperbolicity in the lexicographic product. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 97-104	0.3	
52	Distinctive power of the alliance polynomial for regular graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 313-320	0.3	3
51	Isoperimetric inequalities in graphs and surfaces. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 257-264	0.3	3

50	Measurable diagonalization of positive definite matrices. <i>Journal of Approximation Theory</i> , 2014 , 185, 91-97	0.9	1
49	Graphs with small hyperbolicity constant. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 265-272	0.3	1
48	Characterization of Gromov hyperbolic short graphs. <i>Acta Mathematica Sinica, English Series</i> , 2014 , 30, 197-212	0.6	7
47	Relations between the differential and parameters in graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 281-288	0.3	6
46	Distortion of the hyperbolicity constant in minor graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 57-64	0.3	4
45	Gromov hyperbolicity of periodic planar graphs. <i>Acta Mathematica Sinica, English Series</i> , 2014 , 30, 79-90	0.6	3
44	The topology of balls in Riemannian surfaces and Gromov hyperbolicity. <i>Mathematische Zeitschrift</i> , 2013 , 275, 741-760	0.7	1
43	Gromov hyperbolic graphs. <i>Discrete Mathematics</i> , 2013 , 313, 1575-1585	0.7	37
42	Muckenhoupt inequality with three measures and applications to Sobolev orthogonal polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2013 , 407, 369-386	1.1	4
41	Concerning Asymptotic Behavior for Extremal Polynomials Associated to Nondiagonal Sobolev Norms. <i>Journal of Function Spaces and Applications</i> , 2013 , 2013, 1-11		6
40	Gromov Hyperbolicity in Strong Product Graphs. <i>Electronic Journal of Combinatorics</i> , 2013 , 20,	1.1	10
39	Gromov hyperbolicity of Denjoy domains with hyperbolic and quasihyperbolic metrics. <i>Journal of the Mathematical Society of Japan</i> , 2012 , 64,	1.1	11
38	Location of geodesics and isoperimetric inequalities in Denjoy domains. <i>Proceedings of the Edinburgh Mathematical Society</i> , 2012 , 55, 245-269	0.7	
37	Gromov hyperbolic cubic graphs 2012 , 10, 1141-1151		22
36	Bounds on Gromov hyperbolicity constant in graphs. <i>Proceedings of the Indian Academy of Sciences: Mathematical Sciences</i> , 2012 , 122, 53-65	0.4	7
35	Structure theorem for Riemannian surfaces with arbitrary curvature. <i>Mathematische Zeitschrift</i> , 2012 , 271, 45-62	0.7	3
34	Distortion of the Hyperbolicity Constant of a Graph. <i>Electronic Journal of Combinatorics</i> , 2012 , 19,	1.1	8
33	Computing the hyperbolicity constant. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 4592-4595		33

32	Twists and Gromov hyperbolicity of riemann surfaces. <i>Acta Mathematica Sinica, English Series</i> , 2011 , 27, 29-44	0.6	4
31	Uniformly Separated Sets and Gromov Hyperbolicity of Domains with the Quasihyperbolic Metric. <i>Mediterranean Journal of Mathematics</i> , 2011 , 8, 49-67	0.9	8
30	Hyperbolicity and complement of graphs. <i>Applied Mathematics Letters</i> , 2011 , 24, 1882-1887	3.5	26
29	On the hyperbolicity constant in graphs. <i>Discrete Mathematics</i> , 2011 , 311, 211-219	0.7	39
28	On the Hyperbolicity Constant of Line Graphs. <i>Electronic Journal of Combinatorics</i> , 2011 , 18,	1.1	23
27	A VERY SIMPLE CHARACTERIZATION OF GROMOV HYPERBOLICITY FOR A SPECIAL KIND OF DENJOY DOMAINS. <i>Journal of the Korean Mathematical Society</i> , 2011 , 48, 565-583		
26	Gromov hyperbolic equivalence of the hyperbolic and quasihyperbolic metrics in Denjoy domains. <i>Bulletin of the London Mathematical Society</i> , 2010 , 42, 282-294	0.9	19
25	Comparative Gromov hyperbolicity results for the hyperbolic and quasihyperbolic metrics. <i>Complex Variables and Elliptic Equations</i> , 2010 , 55, 127-135	0.5	6
24	Mathematical Properties of Gromov Hyperbolic Graphs 2010 ,		5
23	Computation of conformal representations of compact Riemann surfaces. <i>Mathematics of Computation</i> , 2010 , 79, 365-365	1.6	5
22	The Multiplication Operator, Zero Location and Asymptotic for Non-diagonal Sobolev Norms. <i>Acta Applicandae Mathematicae</i> , 2010 , 111, 205-218	1.1	5
21	Gromov hyperbolicity in Cartesian product graphs. <i>Proceedings of the Indian Academy of Sciences: Mathematical Sciences</i> , 2010 , 120, 593-609	0.4	19
20	Zero location and asymptotic behavior for extremal polynomials with non-diagonal Sobolev norms. <i>Journal of Approximation Theory</i> , 2010 , 162, 2225-2242	0.9	7
19	Sobolev Spaces with Respect to Measures in Curves and Zeros of Sobolev Orthogonal Polynomials. <i>Acta Applicandae Mathematicae</i> , 2008 , 104, 325-353	1.1	7
18	A simple characterization of weighted Sobolev spaces with bounded multiplication operator. <i>Journal of Approximation Theory</i> , 2008 , 153, 53-72	0.9	8
17	Weighted Weierstrass' theorem with first derivatives. <i>Journal of Mathematical Analysis and Applications</i> , 2007 , 334, 1167-1198	1.1	3
16	Gromov hyperbolicity of Denjoy Domains. <i>Geometriae Dedicata</i> , 2007 , 121, 221-245	0.5	14
15	Gromov Hyperbolicity of Riemann Surfaces. <i>Acta Mathematica Sinica, English Series</i> , 2007 , 23, 209-228	0.6	27

14	Weierstrass's Theorem in Weighted Sobolev Spaces With Δ Derivatives. <i>Rocky Mountain Journal of Mathematics</i> , 2007 , 37,	1.4	4
13	THE ROLE OF FUNNELS AND PUNCTURES IN THE GROMOV HYPERBOLICITY OF RIEMANN SURFACES. <i>Proceedings of the Edinburgh Mathematical Society</i> , 2006 , 49, 399-425	0.7	8
12	A Kolmogorov-Szego-Krein type condition for weighted Sobolev spaces. <i>Indiana University Mathematics Journal</i> , 2005 , 54, 575-598	0.6	5
11	Structure Theorems for Riemann and Topological Surfaces. <i>Journal of the London Mathematical Society</i> , 2004 , 69, 153-168	0.7	11
10	Generalized Weighted Sobolev Spaces and Applications to Sobolev Orthogonal Polynomials I. <i>Acta Applicandae Mathematicae</i> , 2004 , 80, 273-308	1.1	15
9	Gromov hyperbolicity through decomposition of metric spaces. <i>Acta Mathematica Hungarica</i> , 2004 , 103, 107-138	0.8	36
8	Gromov hyperbolicity through decomposition of metrics spaces II. <i>Journal of Geometric Analysis</i> , 2004 , 14, 123-149	0.9	39
7	Weierstrass's theorem with weights. <i>Journal of Approximation Theory</i> , 2004 , 127, 83-107	0.9	7
6	Weighted Sobolev Spaces on Curves. <i>Journal of Approximation Theory</i> , 2002 , 119, 41-85	0.9	14
5	Estimates for nonlinear harmonic "measures" on trees. <i>Michigan Mathematical Journal</i> , 2001 , 49, 47	1	16
4	On Harmonic Functions on Trees. <i>Potential Analysis</i> , 2001 , 15, 199-244	0.8	17
3	Distortion of boundary sets under inner functions. II. <i>Pacific Journal of Mathematics</i> , 1996 , 172, 49-81	0.5	3
2	Area growth and Green's function of Riemann surfaces. <i>Arkiv for Matematik</i> , 1992 , 30, 83-92	0.2	13
1	On p-parabolicity of Riemannian manifolds and graphs. <i>Revista Matematica Complutense</i> , 1	0.8	