Juan A RodrÃ-guez-VelÃ¡zquez

List of Publications by Year
in descending order

106 papers	2,585 citations	331259 21 h-index	205818 48 g-index
108 all docs	108 docs citations	108 times ranked	1505 citing authors

#	Article	IF	Citations
1	Universal lines in graphs. Quaestiones Mathematicae, 2022, 45, 1485-1500.	0.2	2
2	On the perfect differential of a graph. Quaestiones Mathematicae, 2022, 45, 327-345.	0.2	5
3	Perfect Domination, Roman Domination and Perfect Roman Domination in Lexicographic Product Graphs. Fundamenta Informaticae, 2022, 185, 201-220.	0.3	0
4	Corona metric spaces: Basic properties, universal lines, and the metric dimension. AIMS Mathematics, 2022, 7, 13763-13776.	0.7	1
5	On The (k,t)-Metric Dimension Of Graphs. Computer Journal, 2021, 64, 707-720.	1.5	10
6	Secure Italian domination in graphs. Journal of Combinatorial Optimization, 2021, 41, 56-72.	0.8	3
7	Italian Domination in Rooted Product Graphs. Bulletin of the Malaysian Mathematical Sciences Society, 2021, 44, 497-508.	0.4	3
8	Weak Roman domination in rooted product graphs. AIMS Mathematics, 2021, 6, 3641-3653.	0.7	2
9	Solution of the Chen-ChvÃ¡tal conjecture for specific classes of metric spaces. AIMS Mathematics, 2021, 6, 7766-7781.	0.7	2
10	Secure domination in rooted product graphs. Journal of Combinatorial Optimization, 2021, 41, 401-413.	0.8	2
11	Closed formulas for the total Roman domination number of lexicographic product graphs. Ars Mathematica Contemporanea, 2021, 20, 233-241.	0.3	5
12	From (Secure) w-Domination in Graphs to Protection of Lexicographic Product Graphs. Bulletin of the Malaysian Mathematical Sciences Society, 2021, 44, 3747-3765.	0.4	3
13	From the Quasi-Total Strong Differential to Quasi-Total Italian Domination in Graphs. Symmetry, 2021, 13, 1036.	1.1	2
14	On the 2-Packing Differential of a Graph. Results in Mathematics, 2021, 76, 1.	0.4	1
15	From the Strong Differential to Italian Domination in Graphs. Mediterranean Journal of Mathematics, 2021, 18, 1.	0.4	2
16	A note on double domination in graphs. Discrete Applied Mathematics, 2021, 300, 107-111.	0.5	9
17	Criteria for ranking (poly)cyclic chemical constitutional graphs and their vertices via centrality measures. Journal of Mathematical Chemistry, 2020, 58, 439-457.	0.7	2
18	Secure w-Domination in Graphs. Symmetry, 2020, 12, 1948.	1.1	3

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19	Total Domination in Rooted Product Graphs. Symmetry, 2020, 12, 1929.	1.1	2
20	Double domination in lexicographic product graphs. Discrete Applied Mathematics, 2020, 284, 290-300.	0.5	13
21	Secure Total Domination in Rooted Product Graphs. Mathematics, 2020, 8, 600.	1.1	1
22	Lexicographic metric spaces: Basic properties and the metric dimension. Applicable Analysis and Discrete Mathematics, 2020, 14, 20-32.	0.3	3
23	Total protection of lexicographic product graphs. Discussiones Mathematicae - Graph Theory, 2020, 42, 967.	0.2	4
24	On the super domination number of lexicographic product graphs. Discrete Applied Mathematics, 2019, 263, 118-129.	0.5	17
25	Total Weak Roman Domination in Graphs. Symmetry, 2019, 11, 831.	1.1	11
26	On the Secure Total Domination Number of Graphs. Symmetry, 2019, 11, 1165.	1.1	7
27	Two new topological indices based on graph adjacency matrix eigenvalues and eigenvectors. Journal of Mathematical Chemistry, 2019, 57, 1053-1074.	0.7	9
28	The Local Metric Dimension of the Lexicographic Product of Graphs. Bulletin of the Malaysian Mathematical Sciences Society, 2019, 42, 2481-2496.	0.4	8
29	On the General RandiÄ‡ index of polymeric networks modelled by generalized SierpiÅ„ski graphs. Discrete Applied Mathematics, 2019, 263, 140-151.	0.5	11
30	On the weak Roman domination number of lexicographic product graphs. Discrete Applied Mathematics, 2019, 263, 257-270.	0.5	13
31	On the k-metric dimension of metric spaces. Ars Mathematica Contemporanea, 2019, 16, 25-38.	0.3	14
32	Protection of lexicographic product graphs. Discussiones Mathematicae - Graph Theory, 2019, 42, 139.	0.2	4
33	Strong resolving graphs: The realization and the characterization problems. Discrete Applied Mathematics, 2018, 236, 270-287.	0.5	11
34	On the (adjacency) metric dimension of corona and strong product graphs and their local variants: Combinatorial and computational results. Discrete Applied Mathematics, 2018, 236, 183-202.	0.5	25
35	Simultaneous Resolvability in Families of Corona Product Graphs. Bulletin of the Malaysian Mathematical Sciences Society, 2018, 41, 1541-1560.	0.4	1
36	On distances in generalized SierpiÅ„ski graphs. Applicable Analysis and Discrete Mathematics, 2018, 12, 49-69.	0.3	4

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37	Similarities and Differences Between the Vertex Cover Number and the Weakly Connected Domination Number of a Graph. Fundamenta Informaticae, 2017, 152, 273-287.	0.3	0
38	Computing the k -metric dimension of graphs. Applied Mathematics and Computation, 2017, 300, 60-69.	1.4	23
39	The Simultaneous Local Metric Dimension of Graph Families. Symmetry, 2017, 9, 132.	1.1	4
40	On the roman domination number of generalized SierpiÅ„ski graphs. Filomat, 2017, 31, 6515-6528.	0.2	7
41	The strong metric dimension of generalized SierpiÅ„ski graphs with pendant vertices. Ars Mathematica Contemporanea, 2017, 12, 127-134.	0.3	6
42	Computing the metric dimension of a graph from primary subgraphs. Discussiones Mathematicae - Graph Theory, 2017, 37, 273.	0.2	7
43	On generalized Sierpi'nski graphs. Discussiones Mathematicae - Graph Theory, 2017, 37, 547.	0.2	5
44	The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si6.gif" display="inline" overflow="scroll"><mml:mi>k</mml:mi></mml:math>-metric dimension of the lexicographic product of graphs. Discrete Mathematics, 2016, 339, 1924-1934.	0.4	19
45	Relationships Between the 2-Metric Dimension and the 2-Adjacency Dimension in the Lexicographic Product of Graphs. Graphs and Combinatorics, 2016, 32, 2367-2392.	0.2	4
46	The k-Metric Dimension of Corona Product Graphs. Bulletin of the Malaysian Mathematical Sciences Society, 2016, 39, 135-156.	0.4	18
47	On the Local Metric Dimension of Corona Product Graphs. Bulletin of the Malaysian Mathematical Sciences Society, 2016, 39, 157-173.	0.4	24
48	The Simultaneous Metric Dimension of Families Composed by Lexicographic Product Graphs. Graphs and Combinatorics, 2016, 32, 2093-2120.	0.2	5
49	The Local Metric Dimension of Strong Product Graphs. Graphs and Combinatorics, 2016, 32, 1263-1278.	0.2	17
50	The Simultaneous Strong Metric Dimension of Graph Families. Bulletin of the Malaysian Mathematical Sciences Society, 2016, 39, 175-192.	0.4	4
51	Strong metric dimension of rooted product graphs. International Journal of Computer Mathematics, 2016, 93, 1265-1280.	1.0	13
52	The simultaneous metric dimension of graph families. Discrete Applied Mathematics, 2016, 198, 241-250.	0.5	18
53	On the adjacency dimension of graphs. Applicable Analysis and Discrete Mathematics, 2016, 10, 102-127.	0.3	12
54	Weak total resolvability in graphs. Discussiones Mathematicae - Graph Theory, 2016, 36, 185.	0.2	1

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55	Closed formulae for the strong metric dimension of lexicographic product graphs. Discussiones Mathematicae - Graph Theory, 2016, 36, 1051.	0.2	8
56	On the strong metric dimension of the strong products of graphs. Open Mathematics, 2015, 13, .	0.5	8
57	On the Strong Metric Dimension of Cartesian Sum Graphs. Fundamenta Informaticae, 2015, 141, 57-69.	0.3	5
58	Erratum to â€œOn the strong metric dimension of the strong products of graphsâ€• Open Mathematics, 2015, 13, .	0.5	3
59	Computing the local metric dimension of a graph from the local metric dimension of primary subgraphs. International Journal of Computer Mathematics, 2015, 92, 686-693.	1.0	13
60	Analogies between the geodetic number and the Steiner number of some classes of graphs. Filomat, 2015, 29, 1781-1788.	0.2	3
61	The metric dimension of strong product graphs. Carpathian Journal of Mathematics, 2015, 31, 261-268.	0.4	11
62	The Terminal Hosoya Polynomial of Some Families of Composite Graphs. International Journal of Combinatorics, 2014, 2014, 1-4.	0.2	4
63	On the partition dimension of trees. Discrete Applied Mathematics, 2014, 166, 204-209.	0.5	35
64	k-metric resolvability in graphs. Electronic Notes in Discrete Mathematics, 2014, 46, 121-128.	0.4	11
65	Simultaneous Resolvability in Graph Families. Electronic Notes in Discrete Mathematics, 2014, 46, 241-248.	0.4	6
66	On the strong metric dimension of Cartesian and direct products of graphs. Discrete Mathematics, 2014, 335, 8-19.	0.4	27
67	The Hosoya polynomial of distance-regular graphs. Discrete Applied Mathematics, 2014, 178, 153-156.	0.5	3
68	On the strong metric dimension of product graphs. Electronic Notes in Discrete Mathematics, 2014, 46, 169-176.	0.4	3
69	Closed formulae for the local metric dimension of corona product graphs. Electronic Notes in Discrete Mathematics, 2014, 46, 27-34.	0.4	7
70	Notions of Metric Dimension of Corona Products: Combinatorial and Computational Results. Lecture Notes in Computer Science, 2014, , 153-166.	1.0	8
71	A survey on alliances and related parameters in graphs. Electronic Journal of Graph Theory and Applications, 2014, 2, 70-86.	0.2	21
72	Alliance free sets in Cartesian product graphs. Discrete Applied Mathematics, 2013, 161, 1618-1625.	0.5	0

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73	On the strong metric dimension of corona product graphs and join graphs. Discrete Applied Mathematics, 2013, 161, 1022-1027.	0.5	56
74	Computing global offensive alliances in Cartesian product graphs. Discrete Applied Mathematics, 2013, 161, 284-293.	0.5	6
75	Roman domination in Cartesian product graphs and strong product graphs. Applicable Analysis and Discrete Mathematics, 2013, 7, 262-274.	0.3	22
76	Nordhaus-Gaddum results for the convex domination number of a graph. Periodica Mathematica Hungarica, 2012, 65, 125-134.	0.5	4
77	Partitioning a Graph into Global Powerful k-Alliances. Graphs and Combinatorics, 2012, 28, 575-583.	0.2	4
78	The limit case of a domination property. Acta Mathematica Sinica, English Series, 2012, 28, 463-468.	0.2	0
79	Alliance free and alliance cover sets. Acta Mathematica Sinica, English Series, 2011, 27, 497-504.	0.2	1
80	Partitioning a graph into defensive k-alliances. Acta Mathematica Sinica, English Series, 2011, 27, 73-82.	0.2	10
81	On the metric dimension of corona product graphs. Computers and Mathematics With Applications, 2011, 61, 2793-2798.	1.4	83
82	Partitioning a graph into offensive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>k</mml:mi></mml:math>-alliances. Discrete Applied Mathematics, 2011, 159, 224-231.	0.5	11
83	On the RandiÄ‡ Index of Corona Product Graphs. , 2011, 2011, 1-7.		0
84	Boundary defensive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" display="inline" overflow="scroll"><mml:mi>k</mml:mi></mml:math>-alliances in graphs. Discrete Applied Mathematics, 2010, 158, 1205-1211.	0.5	8
85	A note on the partition dimension of Cartesian product graphs. Applied Mathematics and Computation, 2010, 217, 3571-3574.	1.4	44
86	On global offensive <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier. Applie	1.5	11
87	Estimating the higher-order RandiÄ‡ index. Chemical Physics Letters, 2010, 489, 118-120.	1.2	7
88	Laplacian eigenvalues and partition problems in hypergraphs. Applied Mathematics Letters, 2009, 22, 916-921.	1.5	26
89	Offensive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>r</mml:mi></mml:math>-alliances in graphs. Discrete Applied Mathematics, 2009, 157, 177-182.	0.5	31
90	Defensive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>k</mml:mi></mml:math>-alliances in graphs. Applied Mathematics Letters, 2009, 22, 96-100.	1.5	18

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91	Global defensive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>k</mml:mi></mml:math>-alliances in graphs. Discrete Applied Mathematics, 2009, 157, 211-218.	0.5	21
92	On the global offensive alliance number of a graph. Discrete Applied Mathematics, 2009, 157, 219-226.	0.5	34
93	On reliability indices of communication networks. Computers and Mathematics With Applications, 2009, 58, 1433-1440.	1.4	12
94	Functional centrality in graphs. Linear and Multilinear Algebra, 2007, 55, 293-302.	0.5	24
95	Atomic branching in molecules. International Journal of Quantum Chemistry, 2006, 106, 823-832.	1.0	87
96	The <mml:math altimg="si2.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	0.5	1
97	Global offensive alliances in graphs. Electronic Notes in Discrete Mathematics, 2006, 25, 157-164.	0.4	32
98	On defensive alliances and line graphs. Applied Mathematics Letters, 2006, 19, 1345-1350.	1.5	42
99	Subgraph centrality and clustering in complex hyper-networks. Physica A: Statistical Mechanics and Its Applications, 2006, 364, 581-594.	1.2	217
100	A spectral approach to the RandiÄ‡ index. Linear Algebra and Its Applications, 2005, 400, 339-344.	0.4	27
101	Spectral measures of bipartivity in complex networks. Physical Review E, 2005, 72, 046105.	0.8	172
102	Subgraph centrality in complex networks. Physical Review E, 2005, 71, 056103.	0.8	890
103	On the Laplacian Spectrum and Walk-regular Hypergraphs. Linear and Multilinear Algebra, 2003, 51, 285-297.	0.5	48
104	On the Laplacian Eigenvalues and Metric Parameters of Hypergraphs. Linear and Multilinear Algebra, 2002, 50, 1-14.	0.5	45
105	On spectral bounds for cutsets. Discrete Mathematics, 2002, 257, 101-109.	0.4	1
106	Bounding the diameter and the mean distance of a graph from its eigenvalues: Laplacian versus adjacency matrix methods. Discrete Mathematics, 1999, 196, 267-275.	0.4	12