

Miquel Àngel Fiol

List of Publications by Year in descending order

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102
papers

1,782
citations

304743

22
h-index

315739

38
g-index

105
all docs

105
docs citations

105
times ranked

402
citing authors

#	ARTICLE	IF	CITATIONS
1	On the extraconnectivity of graphs. <i>Discrete Mathematics</i> , 1996, 155, 49-57.	0.7	278
2	Extraconnectivity of graphs with large girth. <i>Discrete Mathematics</i> , 1994, 127, 163-170.	0.7	126
3	Maximally connected digraphs. <i>Journal of Graph Theory</i> , 1989, 13, 657-668.	0.9	121
4	The hierarchical product of graphs. <i>Discrete Applied Mathematics</i> , 2009, 157, 36-48.	0.9	66
5	From Local Adjacency Polynomials to Locally Pseudo-Distance-Regular Graphs. <i>Journal of Combinatorial Theory Series B</i> , 1997, 71, 162-183.	1.0	56
6	Locally Pseudo-Distance-Regular Graphs. <i>Journal of Combinatorial Theory Series B</i> , 1996, 68, 179-205.	1.0	53
7	The generalized hierarchical product of graphs. <i>Discrete Mathematics</i> , 2009, 309, 3871-3881.	0.7	50
8	The partial line digraph technique in the design of large interconnection networks. <i>IEEE Transactions on Computers</i> , 1992, 41, 848-857.	3.4	45
9	Algebraic characterizations of distance-regular graphs. <i>Discrete Mathematics</i> , 2002, 246, 111-129.	0.7	44
10	An efficient algorithm to find optimal double loop networks. <i>Discrete Mathematics</i> , 1995, 138, 15-29.	0.7	37
11	Double commutative-step digraphs with minimum diameters. <i>Discrete Mathematics</i> , 1993, 114, 147-157.	0.7	34
12	On super-edge-connected digraphs and bipartite digraphs. <i>Journal of Graph Theory</i> , 1992, 16, 545-555.	0.9	33
13	On almost distance-regular graphs. <i>Journal of Combinatorial Theory - Series A</i> , 2011, 118, 1094-1113.	0.8	32
14	Dense bipartite digraphs. <i>Journal of Graph Theory</i> , 1990, 14, 687-700.	0.9	31
15	On a Class of Polynomials and Its Relation with the Spectra and Diameters of Graphs. <i>Journal of Combinatorial Theory Series B</i> , 1996, 67, 48-61.	1.0	30
16	On the algebraic theory of pseudo-distance-regularity around a set. <i>Linear Algebra and Its Applications</i> , 1999, 298, 115-141.	0.9	30
17	The connectivity of large digraphs and graphs. <i>Journal of Graph Theory</i> , 1993, 17, 31-45.	0.9	28
18	Bipartite graphs and digraphs with maximum connectivity. <i>Discrete Applied Mathematics</i> , 1996, 69, 271-279.	0.9	26

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19	On the order and size of s -geodetic digraphs with given connectivity. <i>Discrete Mathematics</i> , 1997, 174, 19-27.	0.7	25
20	Eigenvalue interlacing and weight parameters of graphs. <i>Linear Algebra and Its Applications</i> , 1999, 290, 275-301.	0.9	24
21	A simple proof of the spectral excess theorem for distance-regular graphs. <i>Linear Algebra and Its Applications</i> , 2010, 432, 2418-2422.	0.9	24
22	Number of walks and degree powers in a graph. <i>Discrete Mathematics</i> , 2009, 309, 2613-2614.	0.7	23
23	Some Families of Orthogonal Polynomials of a Discrete Variable and their Applications to Graphs and Codes. <i>Electronic Journal of Combinatorics</i> , 2009, 16, .	0.4	23
24	Line digraph iterations and the (d,k) problem for directed graphs. , 1983, , .		22
25	Vertex-symmetric digraphs with small diameter. <i>Discrete Applied Mathematics</i> , 1995, 58, 1-11.	0.9	22
26	On the connectivity and the conditional diameter of graphs and digraphs. <i>Networks</i> , 1996, 28, 97-105.	2.7	21
27	Boundary graphs: The limit case of a spectral property. <i>Discrete Mathematics</i> , 2001, 226, 155-173.	0.7	21
28	An Eigenvalue Characterization of Antipodal Distance-Regular Graphs. <i>Electronic Journal of Combinatorics</i> , 1997, 4, .	0.4	21
29	On congruence in Z_n and the dimension of a multidimensional circulant. <i>Discrete Mathematics</i> , 1995, 141, 123-134.	0.7	18
30	On k -Walk-Regular Graphs. <i>Electronic Journal of Combinatorics</i> , 2009, 16, .	0.4	18
31	Congruences in Z_n , finite Abelian groups and the Chinese remainder theorem. <i>Discrete Mathematics</i> , 1987, 67, 101-105.	0.7	16
32	Some large graphs with given degree and diameter. <i>Journal of Graph Theory</i> , 1986, 10, 219-224.	0.9	15
33	On large (\hat{r}^n, D) -graphs. <i>Discrete Mathematics</i> , 1993, 114, 219-235.	0.7	15
34	The alternating and adjacency polynomials, and their relation with the spectra and diameters of graphs. <i>Discrete Applied Mathematics</i> , 1998, 87, 77-97.	0.9	15
35	On pseudo-distance-regularity. <i>Linear Algebra and Its Applications</i> , 2001, 323, 145-165.	0.9	15
36	The superconnectivity of large digraphs and graphs. <i>Discrete Mathematics</i> , 1994, 124, 67-78.	0.7	14

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37	Distance connectivity in graphs and digraphs. Journal of Graph Theory, 1996, 22, 281-292.	0.9	13
38	An Algebraic Characterization of Completely Regular Codes in Distance-Regular Graphs. SIAM Journal on Discrete Mathematics, 2001, 15, 1-13.	0.8	13
39	From regular boundary graphs to antipodal distance-regular graphs. Journal of Graph Theory, 1998, 27, 123-140.	0.9	12
40	The spectra of some families of digraphs. Linear Algebra and Its Applications, 2007, 423, 109-118.	0.9	12
41	The spectra of wrapped butterfly digraphs. Networks, 2003, 42, 15-19.	2.7	11
42	On the hierarchical product of graphs and the generalized binomial tree. Linear and Multilinear Algebra, 2009, 57, 695-712.	1.0	11
43	Weakly distance-regular digraphs. Journal of Combinatorial Theory Series B, 2004, 90, 233-255.	1.0	10
44	On the spectra of hypertrees. Linear Algebra and Its Applications, 2008, 428, 1499-1510.	0.9	10
45	On the k -independence number of graphs. Discrete Mathematics, 2019, 342, 2875-2885.	0.7	10
46	The spectra of lifted digraphs. Journal of Algebraic Combinatorics, 2019, 50, 419-426.	0.8	10
47	On the distance connectivity of graphs and digraphs. Discrete Mathematics, 1994, 125, 169-176.	0.7	9
48	Some Spectral Characterizations of Strongly Distance-Regular Graphs. Combinatorics Probability and Computing, 2001, 10, 127-135.	1.3	9
49	Characterizing k -walk-regular graphs. Linear Algebra and Its Applications, 2010, 433, 1821-1826.	0.7843	9
50	On Cayley line digraphs. Discrete Mathematics, 1995, 138, 147-159.	0.7	8
51	Spectral and Geometric Properties of k -Walk-Regular Graphs. Electronic Notes in Discrete Mathematics, 2007, 29, 333-337.	0.4	8
52	Algebraic characterizations of regularity properties in bipartite graphs. European Journal of Combinatorics, 2013, 34, 1223-1231.	0.8	8
53	The spectra of Manhattan street networks. Linear Algebra and Its Applications, 2008, 429, 1823-1839.	0.9	7
54	Multidimensional Manhattan Street Networks. SIAM Journal on Discrete Mathematics, 2008, 22, 1428-1447.	0.8	7

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55	An algebraic approach to lifts of digraphs. <i>Discrete Applied Mathematics</i> , 2019, 269, 68-76.	0.9	7
56	Boundary graphs " II The limit case of a spectral property. <i>Discrete Mathematics</i> , 1998, 182, 101-111.	0.7	6
57	Multipartite Moore digraphs. <i>Linear Algebra and Its Applications</i> , 2006, 419, 234-250.	0.9	6
58	Pseudo-distance-regularized graphs are distance-regular or distance-biregular. <i>Linear Algebra and Its Applications</i> , 2012, 437, 2973-2977.	0.9	6
59	On bipartite"mixed graphs. <i>Journal of Graph Theory</i> , 2018, 89, 386-394.	0.9	6
60	Connectivity of large bipartite digraphs and graphs. <i>Discrete Mathematics</i> , 1997, 174, 3-17.	0.7	5
61	On Moore bipartite digraphs. <i>Journal of Graph Theory</i> , 2003, 43, 171-187.	0.9	5
62	On the spectrum of an extremal graph with four eigenvalues. <i>Discrete Mathematics</i> , 2006, 306, 2241-2244.	0.7	5
63	On perturbations of almost distance-regular graphs. <i>Linear Algebra and Its Applications</i> , 2011, 435, 2626-2638.	0.9	5
64	Dual concepts of almost distance-regularity and the spectral excess theorem. <i>Discrete Mathematics</i> , 2012, 312, 2730-2734.	0.7	5
65	A Short Proof of the Odd-Girth Theorem. <i>Electronic Journal of Combinatorics</i> , 2012, 19, .	0.4	5
66	Digraphs on permutations. <i>Discrete Mathematics</i> , 1997, 174, 73-86.	0.7	4
67	Pseudo-Strong Regularity Around a Set. <i>Linear and Multilinear Algebra</i> , 2002, 50, 33-47.	1.0	4
68	A New Approach to Loss-Free Packet/Burst Transmission in All-Optical Networks. , 2006, , .		4
69	Edge-distance-regular graphs are distance-regular. <i>Journal of Combinatorial Theory - Series A</i> , 2013, 120, 1057-1067.	0.8	4
70	An interlacing approach for bounding the sum of Laplacian eigenvalues of graphs. <i>Linear Algebra and Its Applications</i> , 2014, 448, 11-21.	0.9	4
71	Cospectral digraphs from locally line digraphs. <i>Linear Algebra and Its Applications</i> , 2016, 500, 52-62.	0.9	4
72	Spectra and eigenspaces of arbitrary lifts of graphs. <i>Journal of Algebraic Combinatorics</i> , 2021, 54, 651-672.	0.8	4

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73	Wavelength and Offset Window Assignment Schemes to Avoid Contention in OBS Rings. , 2006, , .		3
74	Edge-distance-regular graphs. Journal of Combinatorial Theory - Series A, 2011, 118, 2071-2091.	0.8	3
75	Moments in graphs. Discrete Applied Mathematics, 2013, 161, 768-777.	0.9	3
76	A Differential Approach for Bounding the Index of Graphs under Perturbations. Electronic Journal of Combinatorics, 2011, 18, .	0.4	3
77	Optimization of eigenvalue bounds for the independence and chromatic number of graph powers. Discrete Mathematics, 2022, 345, 112706.	0.7	3
78	On the spectra and eigenspaces of the universal adjacency matrices of arbitrary lifts of graphs. Linear and Multilinear Algebra, 2023, 71, 693-710.	1.0	3
79	Spectral bounds and distance-regularity. Linear Algebra and Its Applications, 2005, 397, 17-33.	0.9	2
80	A general resource assignment scheme for successful transmission in optical burst switched networks. Optical Switching and Networking, 2008, 5, 232-243.	2.0	2
81	On some approaches to the spectral excess theorem for nonregular graphs. Journal of Combinatorial Theory - Series A, 2013, 120, 1285-1290.	0.8	2
82	On a version of the spectral excess theorem. Electronic Journal of Graph Theory and Applications, 2020, 8, 391.	0.2	2
83	On Twisted Odd Graphs. Combinatorics Probability and Computing, 2000, 9, 227-240.	1.3	1
84	Periodic Tilings as a Dissection Method. American Mathematical Monthly, 2000, 107, 341.	0.3	1
85	On the weak distance-regularity of Moore-type digraphs. Linear and Multilinear Algebra, 2006, 54, 265-284.	1.0	1
86	On outindependent subgraphs of strongly regular graphs. Linear and Multilinear Algebra, 2006, 54, 123-140.	1.0	1
87	On the fairness issue in OBS loss-free schemes. , 2007, , .		1
88	Load-balanced wavelength assignment strategies for optical burst/packet switching networks. IET Communications, 2009, 3, 381.	2.2	1
89	The geometry of t - l spreads in k -walk-regular graphs. Journal of Graph Theory, 2010, 64, 312-322.	0.9	1
90	The local spectra of regular line graphs. Discrete Mathematics, 2010, 310, 511-517.	0.7	1

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91	Performance analysis of the Sent-But-Sure strategy for Optical Burst and Packet Switched Networks. Performance Evaluation, 2011, 68, 1-20.	1.2	1
92	ID Routing Mechanism for Opportunistic Multi-Hop Networks. IEEE Communications Letters, 2013, 17, 2388-2391.	4.1	1
93	The spectral excess theorem for distance-regular graphs having distance-d graph with fewer distinct eigenvalues. Journal of Algebraic Combinatorics, 2016, 43, 827-836.	0.8	1
94	New Moore-Like Bounds and Some Optimal Families of Abelian Cayley Mixed Graphs. Annals of Combinatorics, 2020, 24, 405-424.	0.6	1
95	Combinatorial vs. Algebraic Characterizations of Completely Pseudo-Regular Codes. Electronic Journal of Combinatorics, 2010, 17, .	0.4	1
96	Comments on "Line digraph iterations and connectivity analysis of de Bruijn and Kautz graphs". IEEE Transactions on Computers, 1996, 45, 768.	3.4	0
97	A General Spectral Bound for Distant Vertex Subsets. Combinatorics Probability and Computing, 2003, 12, .	1.3	0
98	On the local spectra of the subconstituents of a vertex set and completely pseudo-regular codes. Discrete Applied Mathematics, 2014, 176, 12-18.	0.9	0
99	The spectral excess theorem for graphs with few eigenvalues whose distance-2 or distance-1-or-2 graph is strongly regular. Linear and Multilinear Algebra, 2019, 67, 2373-2381.	1.0	0
100	A Note on a New General Family of Deterministic Hierarchical Networks. Journal of Interconnection Networks, 2019, 19, 1950005.	1.0	0
101	An algebraic model for the storage of data in parallel memories. Lecture Notes in Computer Science, 1989, , 238-246.	1.3	0
102	Equivalent Characterizations of the Spectra of Graphs and Applications to Measures of Distance-regularity. Electronic Journal of Linear Algebra, 2020, 36, 629-644.	0.6	0