

# Eva Lagunas

## List of Publications by Year in descending order

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86  
papers

1,872  
citations

516710

16  
h-index

361022

35  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Satellite Communications in the New Space Era: A Survey and Future Challenges. IEEE Communications Surveys and Tutorials, 2021, 23, 70-109.	39.4	447
2	Application of Compressive Sensing in Cognitive Radio Communications: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 1838-1860.	39.4	183
3	Resource Allocation for Cognitive Satellite Communications With Incumbent Terrestrial Networks. IEEE Transactions on Cognitive Communications and Networking, 2015, 1, 305-317.	7.9	178
4	Joint Wall Mitigation and Compressive Sensing for Indoor Image Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 891-906.	6.3	79
5	A RAN Resource Slicing Mechanism for Multiplexing of eMBB and URLLC Services in OFDMA Based 5G Wireless Networks. IEEE Access, 2020, 8, 45674-45688.	4.2	53
6	Flexible Resource Optimization for GEO Multibeam Satellite Communication System. IEEE Transactions on Wireless Communications, 2021, 20, 7888-7902.	9.2	53
7	Beam Illumination Pattern Design in Satellite Networks: Learning and Optimization for Efficient Beam Hopping. IEEE Access, 2020, 8, 136655-136667.	4.2	45
8	5G Cellular and Fixed Satellite Service Spectrum Coexistence in C-Band. IEEE Access, 2020, 8, 72078-72094.	4.2	36
9	Radio Resource Management Techniques for Multibeam Satellite Systems. IEEE Communications Letters, 2021, 25, 2448-2452.	4.1	36
10	Relay Selection and Resource Allocation for SWIPT in Multi-User OFDMA Systems. IEEE Transactions on Wireless Communications, 2019, 18, 2493-2508.	9.2	34
11	Energy Efficiency Optimization for Backscatter Enhanced NOMA Cooperative V2X Communications Under Imperfect CSI. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 12961-12972.	8.0	31
12	Shared Access Satellite-Terrestrial Reconfigurable Backhaul Network Enabled by Smart Antennas at MmWave Band. IEEE Network, 2018, 32, 46-53.	6.9	28
13	Power and rate allocation in cognitive satellite uplink networks. , 2016, , .		26
14	Precoded Cluster Hopping in Multi-Beam High Throughput Satellite Systems. , 2019, , .		25
15	Joint Power and Resource Block Allocation for Mixed-Numerology-Based 5G Downlink Under Imperfect CSI. IEEE Open Journal of the Communications Society, 2020, 1, 1583-1601.	6.9	24
16	Compressive sensing based target counting and localization exploiting joint sparsity. , 2016, , .		23
17	Determining building interior structures using compressive sensing. Journal of Electronic Imaging, 2013, 22, 021003.	0.9	22
18	NOMA-Enabled Multi-Beam Satellite Systems: Joint Optimization to Overcome Offered-Requested Data Mismatches. IEEE Transactions on Vehicular Technology, 2021, 70, 900-913.	6.3	22

#	ARTICLE	IF	CITATIONS
19	UWB joint TOA and DOA estimation. , 2009, , .		20
20	Integrated Terrestrial-Satellite Wireless Backhauling: Resource Management and Benefits for 5G. IEEE Vehicular Technology Magazine, 2018, 13, 39-47.	3.4	20
21	Traffic Simulator for Multibeam Satellite Communication Systems. , 2020, , .		20
22	Sparse channel estimation based on compressed sensing for ultra wideband systems. , 2011, , .		18
23	Relay selection strategies for SWIPT-enabled cooperative wireless systems. , 2017, , .		18
24	Carrier allocation for Hybrid Satellite-Terrestrial Backhaul networks. , 2017, , .		17
25	DEPLOYING JOINT BEAM HOPPING AND PRECODING IN MULTIBEAM SATELLITE NETWORKS WITH TIME VARIANT TRAFFIC. , 2018, , .		17
26	Spectral Feature Detection With Sub-Nyquist Sampling for Wideband Spectrum Sensing. IEEE Transactions on Wireless Communications, 2015, 14, 3978-3990.	9.2	16
27	Cross-Layer Forward Packet Scheduling for Emerging Precoded Broadband Multibeam Satellite System. , 2018, , .		16
28	NOMA Aided Interference Management for Full-Duplex Self-Backhauling HetNets. IEEE Communications Letters, 2018, 22, 1696-1699.	4.1	16
29	Machine Learning for Radio Resource Management in Multibeam GEO Satellite Systems. Electronics (Switzerland), 2022, 11, 992.	3.1	15
30	Spectrum sharing in hybrid terrestrial-satellite backhaul networks in the Ka band. , 2017, , .		14
31	Carrier and Power Assignment for Flexible Broadband GEO Satellite Communications System. , 2020, , .		14
32	Multigroup Multicast Precoding for Energy Optimization in SWIPT Systems With Heterogeneous Users. IEEE Open Journal of the Communications Society, 2020, 1, 92-108.	6.9	14
33	Deep Learning for Beam Hopping in Multibeam Satellite Systems. , 2020, , .		13
34	On Fairness Optimization for NOMA-Enabled Multi-Beam Satellite Systems. , 2019, , .		12
35	Precoding for Satellite Communications: Why, How and What Next?. IEEE Communications Letters, 2021, 25, 2453-2457.	4.1	12
36	Power Control for Satellite Uplink and Terrestrial Fixed-Service Co-Existence in Ka-Band. , 2015, , .		11

#	ARTICLE	IF	CITATIONS
37	Carrier Aggregation in Satellite Communications: Impact and Performance Study. IEEE Open Journal of the Communications Society, 2020, 1, 1390-1402.	6.9	11
38	Centralized Gateway Concept for Precoded Multi-beam GEO Satellite Networks. , 2021, , .		11
39	Wall mitigation techniques for indoor sensing within the compressive sensing framework. , 2012, , .		10
40	Scheduling Design and Performance Analysis of Carrier Aggregation in Satellite Communication Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 7845-7857.	6.3	10
41	Satellite Broadband Capacity-on-Demand: Dynamic Beam Illumination with Selective Precoding. , 2021, , .		10
42	Compressive sensing for through wall radar imaging of stationary scenes using arbitrary data measurements. , 2012, , .		9
43	Pattern Matching for Building Feature Extraction. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 2193-2197.	3.1	9
44	Precoded Cluster Hopping for Multibeam GEO Satellite Communication Systems. Frontiers in Signal Processing, 2021, 1, .	1.7	9
45	Power allocation for in-band full-duplex self-backhauling. , 2017, , .		8
46	Demand-based Scheduling for Precoded Multibeam High-Throughput Satellite Systems. , 2021, , .		8
47	Resource Allocation for Cognitive Satellite Uplink and Fixed-Service Terrestrial Coexistence in Ka-Band. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 487-498.	0.3	8
48	Sparse correlation matching-based spectrum sensing for open spectrum communications. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	7
49	Resource allocation for cognitive Satellite Communications in Ka-band (17.7&#x2013;19.7 GHz). , 2015, , .		7
50	Wireless Multi-group Multicast Precoding with Selective RF Energy Harvesting. , 2019, , .		7
51	Carrier Aggregation in Multi-Beam High Throughput Satellite Systems. , 2019, , .		7
52	Extending the Usable Ka Band Spectrum for Satellite Communications: The CoRaSat Project. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 119-132.	0.3	7
53	Compressive sensing based energy detector. , 2016, , .		6
54	Distributed power control with received power constraints for time-area-spectrum licenses. Signal Processing, 2016, 120, 141-155.	3.7	6

#	ARTICLE	IF	CITATIONS
55	Energy optimization for full-duplex self-backhauled HetNet with non-orthogonal multiple access. , 2017, , .		6
56	Perceptive Packet Scheduling for Carrier Aggregation in Satellite Communication Systems. , 2020, , .		6
57	Feasible Point Pursuit and Successive Convex Approximation for Transmit Power Minimization in SWIPT-Multigroup Multicasting Systems. IEEE Transactions on Green Communications and Networking, 2021, 5, 884-894.	5.5	6
58	Dealing with Non-Uniform Demands in Flexible GEO Satellites: The Carrier Aggregation Perspective. , 2020, , .		6
59	Weighted Sum-SINR and Fairness Optimization for SWIPT-Multigroup Multicasting Systems With Heterogeneous Users. IEEE Open Journal of the Communications Society, 2020, 1, 1470-1484.	6.9	5
60	Dual-DNN Assisted Optimization for Efficient Resource Scheduling in NOMA-Enabled Satellite Systems. , 2021, , .		5
61	Through-the-wall radar imaging for heterogeneous walls using compressive sensing. , 2015, , .		4
62	Sequential Resource Distribution Technique for Multi-User OFDM-SWIPT Based Cooperative Networks. , 2018, , .		4
63	Fair Carrier Allocation for 5G Integrated Satellite-Terrestrial Backhaul Networks. , 2018, , .		4
64	Limits of Smart Radio Resource Assignment in GEO Satellite Communications. , 2021, , .		4
65	Precoding With Received-Interference Power Control for Multibeam Satellite Communication Systems. Frontiers in Space Technologies, 2021, 2, .	1.4	4
66	User Scheduling for Precoded Satellite Systems with Individual Quality of Service Constraints. , 2021, , .		4
67	Robust primary user identification using compressive sampling for cognitive radios. , 2014, , .		3
68	Performance of compressive sensing based energy detection. , 2017, , .		3
69	Resource Allocation and Relay Selection for Multi-User OFDM-Based Cooperative Networks with SWIPT. , 2018, , .		3
70	Deploying Dynamic On-Board Signal Processing Schemes for Multibeam Satellite Systems. , 2019, , .		3
71	Satellite Links Integrated in 5G SDN-enabled Backhaul Networks: An Iterative Joint Power and Flow Assignment. , 2019, , .		3
72	Successive Convex Approximation for Transmit Power Minimization in SWIPT-Multicast Systems. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
73	Completion Time Minimization in NOMA Systems: Learning for Combinatorial Optimization. IEEE Networking Letters, 2021, 3, 15-18.	1.9	3
74	Dynamic Resource Assignment for Heterogeneous Services in 5G Downlink Under Imperfect CSI. , 2021, , .		3
75	Demand and Interference Aware Adaptive Resource Management for High Throughput GEO Satellite Systems. IEEE Open Journal of the Communications Society, 2022, 3, 759-775.	6.9	3
76	Precoding-Aided Bandwidth Optimization for High Throughput Satellite Systems. , 2021, , .		2
77	Interference-Aware Demand-Based User Scheduling in Precoded High Throughput Satellite Systems. IEEE Open Journal of Vehicular Technology, 2022, 3, 120-137.	4.9	2
78	Unsupervised Learning for User Scheduling in Multibeam Precoded GEO Satellite Systems. , 2022, , .		2
79	Spatial sparsity based direct positioning for IR-UWB in IEEE 802.15.4a channels. , 2014, , .		1
80	Graph Similarity based on Graph Fourier Distances. , 2018, , .		1
81	A Low-complexity Resource Optimization Technique for High Throughput Satellite. , 2021, , .		1
82	Innovative Signal Processing Techniques for Wireless Positioning. , 2012, , 207-315.		0
83	Casting Signal Processing to Real-World Data. , 2012, , 383-419.		0
84	Improved interior wall detection using designated dictionaries in compressive urban sensing problems. Proceedings of SPIE, 2013, , .	0.8	0
85	QoS-Constrained Sum-Harvested Energy Maximization in OFDMA-based Wireless Cooperative Networks. , 2018, , .		0
86	Position Estimation for IR-UWB Systems. Advances in Wireless Technologies and Telecommunication Book Series, 2018, , 274-316.	0.4	0