

# Salam A Zummo

## 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.

90  
papers

811  
citations

16  
h-index

25  
g-index

135  
ext. papers

1,012  
ext. citations

3.6  
avg. IF

4.86  
L-index

#	Paper	IF	Citations
90	Performance Analysis and Optimization of Multiuser Mixed FSO/RF Cognitive Radio DF Relay Network. <i>Arabian Journal for Science and Engineering</i> , <b>2022</b> , 47, 3649	2.5	1
89	User Pairing, Link Selection, and Power Allocation for Cooperative NOMA Hybrid VLC/RF Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 1785-1800	9.6	21
88	Power Allocation and Link Selection for Multicell Cooperative NOMA Hybrid VLC/RF Systems. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 560-564	3.8	11
87	Q-Learning-Based Power Allocation for Secure Wireless Communication in UAV-Aided Relay Network. <i>IEEE Access</i> , <b>2021</b> , 9, 33169-33180	3.5	4
86	Performance Analysis of Mixed Interference Aligned MIMO RF/Unified FSO DF Relaying With Heterodyne Detection and Two IMDD Models. <i>IEEE Access</i> , <b>2020</b> , 8, 93297-93308	3.5	3
85	Unmanned Aerial Vehicle Relay System: Performance Evaluation and 3D Location Optimization. <i>IEEE Access</i> , <b>2020</b> , 8, 67635-67645	3.5	7
84	Physical layer security of interference aligned mixed RF/unified-FSO relaying network. <i>IET Communications</i> , <b>2020</b> , 14, 2282-2293	1.3	1
83	DC-Bias and Power Allocation in Cooperative VLC Networks for Joint Information and Energy Transfer. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 5486-5499	9.6	14
82	On Optimizing VLC Networks for Downlink Multi-User Transmission: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2019</b> , 21, 2947-2976	37.1	81
81	. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-17	1.8	13
80	Functional Quantization-Based Data Compression in Seismic Acquisition. <i>Arabian Journal for Science and Engineering</i> , <b>2019</b> , 44, 2151-2163	2.5	2
79	A Novel Time-Switching Relaying Protocol for Multi-user Relay Networks with SWIPT. <i>Arabian Journal for Science and Engineering</i> , <b>2019</b> , 44, 2253-2263	2.5	2
78	New Algorithms for Energy-Efficient VLC Networks With User-Centric Cell Formation. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2019</b> , 3, 108-121	4	9
77	Precise Performance Analysis of Dual-Hop Mixed RF/Unified-FSO DF Relaying With Heterodyne Detection and Two IM-DD Channel Models. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-22	1.8	25
76	Joint Optimization of Power Allocation and Load Balancing for Hybrid VLC/RF Networks. <i>Journal of Optical Communications and Networking</i> , <b>2018</b> , 10, 553	4.1	43
75	Joint Power Allocation and Cell Formation for Energy-Efficient VLC Networks <b>2018</b> ,		4
74	A modified time-switching relaying protocol for multi-destination relay networks with SWIPT <b>2018</b> ,		2

73	An efficient time-switching relaying protocol for multiuser cognitive radio relay networks with SWIPT. <i>Physical Communication</i> , <b>2018</b> , 30, 86-96	2.2	2
72	Performance analysis and power allocation for two-way multi-user mixed RF/FSO relay networks <b>2018</b> ,		1
71	Survey on Physical Layer Security in Optical Wireless Communication Systems <b>2018</b> ,		17
70	Protocol Design and Performance Analysis of Multiuser Mixed RF and Hybrid FSO/RF Relaying With Buffers. <i>Journal of Optical Communications and Networking</i> , <b>2018</b> , 10, 309	4.1	26
69	Two-Way Multiuser Mixed RF/FSO Relaying: Performance Analysis and Power Allocation. <i>Journal of Optical Communications and Networking</i> , <b>2018</b> , 10, 396	4.1	38
68	Performance Analysis and Power Allocation for Underlay Cognitive MIMO Relaying Networks with Transmit Antenna Selection Under Antenna Correlation. <i>Wireless Personal Communications</i> , <b>2017</b> , 94, 3057-3089	1.9	
67	Power allocation and cooperative jamming for enhancing physical layer security in opportunistic relay networks in the presence of interference. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2017</b> , 28, e3178	1.9	3
66	Physical Layer Security Enhancement in Multiuser Mixed RF/FSO Relay Networks under RF Interference <b>2017</b> ,		5
65	Multi-Destination Cognitive Radio Relay Network with SWIPT and Multiple Primary Receivers <b>2017</b> ,		6
64	An Efficient Relay Selection and Power Allocation Schemes for Cognitive MIMO DF Relay Networks with Buffers. <i>Arabian Journal for Science and Engineering</i> , <b>2017</b> , 42, 2839-2849	2.5	2
63	Outage Analysis of Mixed Underlay Cognitive RF MIMO and FSO Relaying With Interference Reduction. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-22	1.8	25
62	Effect of RF Interference on the Security-Reliability Tradeoff Analysis of Multiuser Mixed RF/FSO Relay Networks With Power Allocation. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 1490-1505	4	50
61	Cost-efficient secondary users grouping for two-tier cognitive radio networks. <i>Physical Communication</i> , <b>2017</b> , 25, 1-13	2.2	4
60	On the performance of two-way multiuser mixed RF/FSO relay networks with opportunistic scheduling & asymmetric channel gains <b>2017</b> ,		3
59	Precise outage analysis of mixed RF/unified-FSO DF relaying with HD and 2 IM-DD channel models <b>2017</b> ,		6
58	Cognitive Bidirectional Buffer-Aided DF Relay Networks: Protocol design and Power Allocation. <i>Wireless Personal Communications</i> , <b>2017</b> , 97, 5213-5228	1.9	2
57	New Bandwidth Efficient Relaying Schemes in Cooperative Cognitive Two-Way Relay Networks With Physical Layer Security. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 5372-5386	6.8	21
56	Joint Load Balancing and Power Allocation for Hybrid VLC/RF Networks <b>2017</b> ,		9

55	A Full Diversity Cooperative Spectrum Sharing Scheme for Cognitive Radio Networks. <i>IEEE Access</i> , <b>2017</b> , 5, 17722-17732	3.5	2
54	Spectrum-sharing DF generalized order relay selection with interference and multiple primary users using orthogonal spectrums. <i>Physical Communication</i> , <b>2016</b> , 21, 49-59	2.2	2
53	Security and reliability analysis of diversity combining techniques in SIMO mixed RF/FSO with multiple users <b>2016</b> ,		2
52	Security-Reliability Trade-Off Analysis for Multiuser SIMO Mixed RF/FSO Relay Networks With Opportunistic User Scheduling. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 5904-5918	9.6	64
51	Spectrum-Sharing AF Relay Networks with Switch-and-Examine Relaying and Multiple Primary Users Using Orthogonal Spectrums. <i>Arabian Journal for Science and Engineering</i> , <b>2016</b> , 41, 513-525		2
50	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 5349-5363	6.8	5
49	Performance analysis of switch-and-examine diversity systems with interference and Rayleigh fading channels. <i>Wireless Communications and Mobile Computing</i> , <b>2016</b> , 16, 884-894	1.9	
48	Transmit antenna selection of correlated MIMO multiuser cognitive radio networks in Nakagami-m fading channels. <i>Wireless Communications and Mobile Computing</i> , <b>2016</b> , 16, 2098-2115	1.9	
47	Enhancing Physical Layer Security of Multiuser SIMO Mixed RF/FSO Relay Networks with Multi-Eavesdroppers <b>2016</b> ,		9
46	Power Allocation and Performance of Multiuser Mixed RF/FSO Relay Networks With Opportunistic Scheduling and Outdated Channel Information. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 3259-3272	4	32
45	A Bandwidth-Efficient Cognitive Radio With Two-Path Amplify-and-Forward Relaying. <i>IEEE Wireless Communications Letters</i> , <b>2015</b> , 4, 66-69	5.9	40
44	Performance Analysis of Virtual MIMO Relaying Schemes Based on Detect&Split&Forward. <i>Wireless Personal Communications</i> , <b>2015</b> , 81, 711-724	1.9	
43	Optimal Power Allocation for Enhancing Physical Layer Security in Opportunistic Relay Networks in the Presence of Co-Channel Interference <b>2015</b> ,		6
42	Multiuser Scheduling in Mixed RF/FSO Relaying with Outdated Channel Estimation <b>2015</b> ,		2
41	Cooperative Cognitive Radio Model for Enhancing Physical Layer Security in Two-Path Amplify-and-Forward Relaying Networks <b>2015</b> ,		1
40	Performance of Nth-best user selection in multiuser diversity systems with co-channel interference and outdated channel information <b>2015</b> ,		2
39	An Efficient Switching Threshold-Based Scheduling Protocol for Multiuser Cognitive AF Relay Networks with Primary Users Using Orthogonal Spectrums. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2015</b> , 135-148	0.2	1
38	Performance Analysis of Amplify-and-Forward Relay Systems with Interference-Limited Destination in Various Rician Fading Channels. <i>Wireless Personal Communications</i> , <b>2014</b> , 77, 1751-1773	1.9	1

37	Cognitive Amplify-and-Forward Relay Networks with Switch-and-Examine Relaying in Rayleigh Fading Channels. <i>IEEE Communications Letters</i> , <b>2014</b> , 18, 825-828	3.8	6
36	Performance of Nth-best antenna selection diversity systems with co-channel interference and outdated channel information. <i>IET Communications</i> , <b>2014</b> , 8, 1674-1683	1.3	2
35	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 2731-2743	6.8	10
34	Cognitive Opportunistic DF Relay Networks with Interference and Multiple Primary Receivers Using Orthogonal Spectrums. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 8989-8999		2
33	Cognitive DF generalized order relay selection networks with imperfect channel estimation and interference from primary user <b>2014</b> ,		6
32	Multiuser Cognitive Networks with Nth-Best User Selection and Imperfect Channel Estimation. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 8979-8987		2
31	On the Performance of Multiuser Switched Diversity Systems with Co-channel Interference. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 8901-8912		1
30	Ray-tracing wireless channel modeling and verification in Coordinated Multi-Point systems <b>2014</b> ,		1
29	Performance of Layered Steered Space-Time Codes in Wireless Systems. <i>Wireless Personal Communications</i> , <b>2013</b> , 72, 1827-1845	1.9	
28	A variable step-size strategy for distributed estimation over adaptive networks. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2013</b> , 2013,	1.9	16
27	Outage Analysis of N <sup>th</sup> -Best DF Relay Systems in the Presence of CCI over Rayleigh Fading Channels. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 697-700	3.8	20
26	Optimized Power Allocation for Layered-Steered Space-Time Codes. <i>Wireless Personal Communications</i> , <b>2013</b> , 68, 95-113	1.9	
25	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2013</b> , 62, 920-927	6.8	7
24	Performance of CDMA-Based Multi-hop Wireless Networks in Nakagami Fading. <i>Arabian Journal for Science and Engineering</i> , <b>2013</b> , 38, 2399-2409		
23	Fixed-gain AF relaying with interference-limited destination in Rician/Nakagami-m fading channels <b>2013</b> ,		2
22	A low-complexity relay selection scheme based on switch-and-examine diversity combining for AF relay systems. <i>IET Communications</i> , <b>2013</b> , 7, 848-859	1.3	10
21	Performance analysis of amplify-and-forward relay system with interference-limited destination in different fading environments <b>2012</b> ,		1
20	Performance analysis of dual-hop AF relay systems with interference-limited destination in Nakagami-m/Rician fading channels <b>2012</b> ,		3

19	A noise-constrained algorithm for estimation over distributed networks. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2012</b> , 27, n/a-n/a	2.8	2
18	A new low-complexity relay selection scheme based on switch-and-examine diversity combining for dual-hop relay networks <b>2012</b> ,		3
17	Performance Evaluation of Generalized Selection Combiners Over Slow Fading with Estimation Errors. <i>Wireless Personal Communications</i> , <b>2011</b> , 56, 207-236	1.9	2
16	A New Union Bound on the Error Probability of Binary Coded OFDM Systems in Wireless Environments. <i>Wireless Personal Communications</i> , <b>2011</b> , 60, 307-320	1.9	
15	A robust LMS adaptive algorithm over distributed networks <b>2011</b> ,		1
14	Noise Constrained Diffusion Least Mean Squares over adaptive networks <b>2010</b> ,		3
13	Variable step-size least mean square algorithms over adaptive networks <b>2010</b> ,		4
12	Layered Steered Space Time Codes in multi-user systems <b>2010</b> ,		2
11	Spectral efficiency of maximum ratio combining (MRC) over slow fading with estimation errors <b>2010</b> , 20, 85-96		15
10	Layered steered space-time codes using multi-dimensional sphere packing modulation. <i>IEEE Transactions on Wireless Communications</i> , <b>2009</b> , 8, 3335-3340	9.6	17
9	Nonbinary LDPC-Coded Sphere-Packed Transmit Diversity. <i>IEEE Transactions on Vehicular Technology</i> , <b>2008</b> , 57, 3200-3205	6.8	3
8	Performance Analysis of Wireless Networks With Directional Antennas. <i>IEEE Transactions on Vehicular Technology</i> , <b>2008</b> , 57, 3187-3199	6.8	11
7	Performance of Coded Systems with Generalized Selection Diversity in Nakagami Fading. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2008</b> , 2008,	3.2	3
6	Performance analysis of coded cooperation diversity in wireless networks. <i>Wireless Communications and Mobile Computing</i> , <b>2007</b> , 7, 473-481	1.9	3
5	Performance of Coded Cooperative Diversity with Interference in Nakagami Fading Environments. <i>Wireless Personal Communications</i> , <b>2007</b> , 43, 29-40	1.9	
4	Near-Instantaneously Adaptive Cooperative Uplink Schemes Based on Space-Time Block Codes and V-Blast. <i>IEEE Vehicular Technology Conference</i> , <b>2007</b> ,	0.1	8
3	Performance Analysis of Coded Cooperation Diversity in Wireless Networks <b>2006</b> ,		2
2	Union Bounds on the Bit Error Probability of Coded MRC in Nakagami-m Fading. <i>IEEE Communications Letters</i> , <b>2006</b> , 10, 769-771	3.8	3

- 1 Design and performance of space-time trellis codes for rapid Rayleigh fading channels. *Journal of Communications and Networks*, **2003**, 5, 174-183 4.1 1