Kostas P Peppas

List of Publications by Year
in descending order

101 papers	2,322 citations	172207 29 h-index	223531 46 g-index
103 all docs	103 docs citations	103 times ranked	1415 citing authors

#	Article	IF	Citations
1	A New Formula for the Average Bit Error Probability of Dual-Hop Amplify-and-Forward Relaying Systems over Generalized Shadowed Fading Channels. IEEE Wireless Communications Letters, 2012, 1, 85-88.	3.2	143
2	Serial Free-Space Optical Relaying Communications Over Gamma-Gamma Atmospheric Turbulence Channels. Journal of Optical Communications and Networking, 2010, 2, 576.	3.3	125
3	Average Symbol Error Probability of General-Order Rectangular Quadrature Amplitude Modulation of Optical Wireless Communication Systems Over Atmospheric Turbulence Channels. Journal of Optical Communications and Networking, 2010, 2, 102.	3.3	107
4	Capacity Analysis of Dual Amplify-and-Forward Relayed Free-Space Optical Communication Systems Over Turbulence Channels With Pointing Errors. Journal of Optical Communications and Networking, 2013, 5, 1032.	3.3	90
5	New Results on the Fluctuating Two-Ray Model With Arbitrary Fading Parameters and Its Applications. IEEE Transactions on Vehicular Technology, 2018, 67, 2766-2770.	3.9	80
6	A Simple, Accurate Approximation to the Sum of Gammaâ€“Gamma Variates and Applications in MIMO Free-Space Optical Systems. IEEE Photonics Technology Letters, 2011, 23, 839-841.	1.3	71
7	Performance of underwater optical wireless communication with multiâ€pulse pulseâ€position modulation receivers and spatial diversity. IET Optoelectronics, 2017, 11, 180-185.	1.8	65
8	Secrecy Outage Analysis Over Correlated Composite Nakagami- m /Gamma Fading Channels. IEEE Communications Letters, 2018, 22, 77-80.	2.5	64
9	The Fischerâ€“Snedecor $mathcal {F}$-Distribution Model for Turbulence-Induced Fading in Free-Space Optical Systems. Journal of Lightwave Technology, 2020, 38, 1286-1295.	2.7	64
10	On the Performance Analysis of RIS-Empowered Communications Over Nakagami-m Fading. IEEE Communications Letters, 2021, 25, 2191-2195.	2.5	63
11	Performance Analysis of Dual-Hop AF Relaying Systems over Mixed $eta{-}mu$ and $kappa{-} mu$ Fading Channels. IEEE Transactions on Vehicular Technology, 2013, 62, 3149-3163.	3.9	61
12	Simple, accurate formula for the average bit error probability of multiple-input multiple-output free-space optical links over negative exponential turbulence channels. Optics Letters, 2012, 37, 3243.	1.7	60
13	Underwater Optical Wireless Communications With Optical Amplification and Spatial Diversity. IEEE Photonics Technology Letters, 2016, 28, 2613-2616.	1.3	60
14	Free-Space Optical Communication With Spatial Modulation and Coherent Detection Over H-K Atmospheric Turbulence Channels. Journal of Lightwave Technology, 2015, 33, 4221-4232.	2.7	57
15	On High-Order Capacity Statistics of Spectrum Aggregation Systems Over $kappa $ - $mu $ and $kappa $ - $mu $ Shadowed Fading Channels. IEEE Transactions on Communications, 2017, 65, 935-944.	4.9	57
16	Physical Layer Security Over Fluctuating Two-Ray Fading Channels. IEEE Transactions on Vehicular Technology, 2018, 67, 8949-8953.	3.9	57
17	Multivariate gammaâ€“gamma distribution with exponential correlation and its applications in radio frequency and optical wireless communications. IET Microwaves, Antennas and Propagation, 2011, 5, 364.	0.7	53
18	Error performance of digital modulation schemes with MRC diversity reception over Î·-Î¼ fading channels. IEEE Transactions on Wireless Communications, 2009, 8, 4974-4980.	6.1	49

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19	Accurate closed-form approximations to generalised-K sum distributions and applications in the performance analysis of equal-gain combining receivers. IET Communications, 2011, 5, 982-989.	1.5	45
20	Average Capacity of Optical Wireless Communication Systems Over I-K Atmospheric Turbulence Channels. Journal of Optical Communications and Networking, 2012, 4, 1026.	3.3	44
21	Services in interworking 3G and WLAN environments. IEEE Wireless Communications, 2004, 11, 14-20.	6.6	40
22	Improving the availability of terrestrial FSO links over log normal atmospheric turbulence channels using dispersive chirped Gaussian pulses. Optics and Laser Technology, 2013, 54, 329-334.	2.2	38
23	Cascaded generalised-K fading channel. IET Communications, 2010, 4, 116.	1.5	35
24	Performance of CA-CFAR detectors in nonhomogeneous positive alpha-stable clutter. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2027-2038.	2.6	35
25	Dual-hop relaying communications over generalized-K (KG) fading channels. Journal of the Franklin Institute, 2010, 347, 1643-1653.	1.9	33
26	Physical Layer Security for Multiple-Antenna Systems: A Unified Approach. IEEE Transactions on Communications, 2016, 64, 314-328.	4.9	33
27	Statistical Analysis for On-Body Spatial Diversity Communications at 2.45 GHz. IEEE Transactions on Antennas and Propagation, 2012, 60, 4014-4019.	3.1	32
28	Error rate performance analysis of dual-hop relaying transmissions over generalized-K fading channels. AEU - International Journal of Electronics and Communications, 2010, 64, 1094-1099.	1.7	30
29	Sum of Non-Identical Independent Squared Î·-Î¼ Variates and Applications in the Performance Analysis of DS-CDMA Systems. IEEE Transactions on Wireless Communications, 2010, 9, 2718-2723.	6.1	29
30	Energy detection of unknown signals in Gammaâ€shadowed Rician fading environments with diversity reception. IET Communications, 2015, 9, 196-210.	1.5	28
31	Capacity of â€“Î¼ fading channels under different adaptive transmission techniques. IET Communications, 2010, 4, 532.	1.5	27
32	Sum of Nonidentical Squared $kappa {-} mu$ Variates and Applications in the Performance Analysis of Diversity Receivers. IEEE Transactions on Vehicular Technology, 2012, 61, 413-419.	3.9	27
33	Dual-Hop Relaying Communications with Cochannel Interference Over <formula formulatype="inline"><tex Notation="TeX">eta</tex></formula> - /spl mu/ Fading Channels. IEEE Transactions on Vehicular Technology, 2013, 62, 4110-4116.	3.9	27
34	Dual-Hop Relaying Communications Over Fisher-Snedecor F-Fading Channels. IEEE Transactions on Communications, 2020, 68, 2695-2710.	4.9	26
35	Serial Amplify-and-Forward Relay Transmission Systems in Nakagami- <inline-formula> <tex-math notation="TeX">m</tex-math></inline-formula> Fading Channels With a Poisson Interference Field. IEEE Transactions on Vehicular Technology, 2014, 63, 2183-2196.	3.9	25
36	Interoperability criteria, mechanisms, and evaluation of system performance for transparently interoperating WLAN and UMTS-HSDPA networks. IEEE Network, 2005, 19, 66-72.	4.9	23

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37	Probability of fade estimation for FSO links with time dispersion and turbulence modeled with the gammaâ€“gamma or the I-K distribution. Optik, 2014, 125, 7191-7197.	1.4	23
38	Dual-Hop Cognitive Amplify-and-Forward Relaying Networks Over <inline-formula> <tex-math notation="LaTeX">$eta-mu$</tex-math> </inline-formula> Fading Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 6290-6300.	3.9	22
39	On the Distribution of the Ratio of Products of Fisher-Snedecor $mathcal {F}$ Random Variables and Its Applications. IEEE Transactions on Vehicular Technology, 2020, 69, 1855-1866.	3.9	21
40	A trivariate nakagami-m distribution with arbitrary covariance matrix and applications to generalized-selection diversity receivers. IEEE Transactions on Communications, 2009, 57, 1896-1902.	4.9	19
41	On the Effective Capacity of Amplify-and-Forward Multihop Transmission Over Arbitrary and Correlated Fading Channels. IEEE Wireless Communications Letters, 2016, 5, 248-251.	3.2	19
42	A Framework for Dynamic Car and Taxi Pools with the Use of Positioning Systems. , 2009, , .		18
43	Performance evaluation of triple-branch GSC diversity receivers over generalized-K fading channels. IEEE Communications Letters, 2009, 13, 829-831.	2.5	16
44	Unified Error Performance Analysis of Space Shift Keying Modulation for MISO and MIMO Systems Under Generalized Fading. IEEE Wireless Communications Letters, 2013, 2, 663-666.	3.2	15
45	Evaluation of average bit error rate for wireless networks with alphaâ€stable interference. Electronics Letters, 2014, 50, 47-49.	0.5	14
46	Multilevel Spatial Hierarchical Modulation: An Efficient Scheme for Unequal Error Protection Under Rician Fading. IEEE Transactions on Vehicular Technology, 2015, 64, 5177-5186.	3.9	13
47	Asymptotic Error Performance Analysis of Spatial Modulation Under Generalized Fading. IEEE Wireless Communications Letters, 2014, 3, 421-424.	3.2	11
48	Space Shift Keying Transmission for Intervehicular Communications. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3635-3640.	4.7	11
49	Dual-hop multi-input multi-output relay systems over spatially correlated Nakagami-m fading channels. IET Communications, 2011, 5, 2106-2115.	1.5	9
50	UAV-Aided Wireless Information and Power Transmission for High-Speed Train Communications. , 2018, , .		9
51	Channel capacity evaluation for a multiple-input-multiple-output terminal in the presence of user's hand. IET Microwaves, Antennas and Propagation, 2007, 1, 1137.	0.7	8
52	Performance Evaluation of Spaceâ€“Time Block Codes Over Keyhole Weibull Fading Channels. Wireless Personal Communications, 2008, 46, 385-395.	1.8	8
53	Performance Analysis of SISO and MIMO FSO Communication Systems Over Turbulent Channels. , 2012, , .		8
54	Optimal Combining for Optical Wireless Systems With Amplification: The $chi ^{2}$ Noise Regime. IEEE Photonics Technology Letters, 2018, 30, 119-122.	1.3	8

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55	Performance Analysis of Wireless Powered UAV Relaying Systems Over <tex>$kappa-mu$</tex> Fading Channels. , 2018, , .		8
56	Effective Capacity of Fluctuating Two-Ray Channels with Arbitrary Fading Parameters. , 2018, , .		8
57	High-Order Statistics for the Channel Capacity of EGC Receivers Over Generalized Fading Channels. IEEE Communications Letters, 2018, 22, 1740-1743.	2.5	8
58	Performance Evaluation at the System Level of Reconfigurable Space-Time Coding Techniques for HSDPA. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.0	7
59	Error rate analysis of threshold-based hybrid selection/maximal-ratio diversity over correlated nakagami-m fading channels. IEEE Communications Letters, 2007, 11, 922-924.	2.5	7
60	Moments generating function of the harmonic mean of two non-identical gamma random variables and its applications in wireless communications. Journal of the Franklin Institute, 2012, 349, 845-860.	1.9	7
61	Effective Capacity of Multisource Multidestination Cooperative Systems Under Cochannel Interference. IEEE Transactions on Vehicular Technology, 2018, 67, 8411-8421.	3.9	7
62	System level performance evaluation of MIMO and SISO OFDM-based WLANs. Wireless Networks, 2009, 15, 859-873.	2.0	6
63	Moments-based analysis of dual-hop amplify-and-forward relaying communications systems over generalised fading channels. IET Communications, 2012, 6, 2040-2047.	1.5	6
64	Serial relaying communications over generalizedâ€gamma fading channels. Wireless Communications and Mobile Computing, 2012, 12, 1191-1202.	0.8	6
65	Semiconductor optical amplifiers for underwater optical wireless communications. IET Optoelectronics, 2017, 11, 15-19.	1.8	6
66	Approximations to the Distribution of the Sum of Generalized Normal RVs Using the Moments Matching Method and its Applications in Performance Analysis of Equal Gain Diversity Receivers. IEEE Transactions on Vehicular Technology, 2018, 67, 7230-7241.	3.9	6
67	Outage performance of cognitive DF relaying networks employing SWIPT. China Communications, 2018, 15, 28-40.	2.0	6
68	Effective Capacity of L_p -Norm Diversity Receivers Over Generalized Fading Channels Under Adaptive Transmission Schemes. IEEE Transactions on Communications, 2020, 68, 1240-1253.	4.9	5
69	The Impact of the Position of MIMO Terminal User's Hand on Channel Capacity. , 2007, , .		4
70	Impact of MIMO Techniques on the Interoperability between UMTS-HSDPA and WLAN Wireless Systems. IEEE Communications Surveys and Tutorials, 2011, 13, 708-720.	24.8	4
71	On-body channel statistical analysis based on measurements in an indoor environment at 2.45â€...GHz. IET Microwaves, Antennas and Propagation, 2012, 6, 636.	0.7	4
72	Hierarchical Multilevel Space-Shift Keying for Unequal Error Protection under Rician Fading. IEEE Communications Letters, 2013, 17, 2217-2220.	2.5	4

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73	Layered Offset Hierarchical QAM Modulation for Intersymbol Interference Reduction. IEEE Communications Letters, 2013, 17, 2176-2179.	2.5	4
74	Outage analysis of cognitive two-way relaying networks with SWIPT over Nakagami-m fading channels. Science China Information Sciences, 2018, 61, 1.	2.7	4
75	On the sum of ordered random variables and its applications to physicalâ€layer security of communication over Î·â€¼ fading channels with generalized selection combining. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3264.	2.6	4
76	Unified Ergodic Capacity Expressions for AF Dual-Hop Systems With Hardware Impairments. IEEE Communications Letters, 2019, 23, 1057-1060.	2.5	4
77	Fetus Heart Rate Monitoring: A Preliminary Research Study With Remote Sensing. IEEE Consumer Electronics Magazine, 2022, 11, 32-44.	2.3	4
78	Performance analysis of dual-hop UAV relaying systems over mixed fluctuating two-ray and Nakagami-m fading channels. Science China Information Sciences, 2021, 64, 1.	2.7	4
79	The impact of the users body on the performance of a MIMO terminal in "pocket position". , 2007, , .		4
80	Outage Analysis of Dual-Hop Relaying Communications with Co-channel Interference over Nakagami-m Fading Channels. IEICE Transactions on Communications, 2011, E94-B, 2414-2418.	0.4	4
81	New Results for the Error Rate Performance of LoRa Systems over Fading Channels. Sensors, 2022, 22, 3350.	2.1	4
82	Design and control of the interconnecting network of the access segment of mobile communications systems. Computer Communications, 2003, 26, 489-497.	3.1	3
83	On-body channel modelling: Measurements and statistical analysis. , 2010, , .		3
84	Performance of CA-CFAR receivers in alpha-stable clutter. , 2013, , .		3
85	Capacity Analysis of Power Beacon-assisted Energy Harvesting MIMO System Over Shadowed Fading Channels. IEEE Transactions on Vehicular Technology, 2021, , 1-1.	3.9	3
86	Improving spectral efficiency in broadcasting employing hierarchical QAM. , 2014, , .		2
87	NGL03-4: An Interoperability Mechanism for Seamless Interworking between WLAN and UMTS-HSDPA Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	1
88	Error performance of triple-branch generalized selection diversity over Nakagami fading channels. , 2008, , .		1
89	Handheld terminal vs. bodyworn antenna systems: A comparative study of MIMO systems performance. , 2009, , .		1
90	Wireless SPIHT-encoded image transmission employing hierarchical modulation: A DSP implementation. , 2013, , .		1

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91	Performance Analysis of Multi-Hop AF Relaying Systems with a Poisson Field of Interferers in Nakagami-m Fading Channels. , 2013, , .		1
92	On the performance analysis of energy detection of unknown signals in Gamma shadowed Ricean fading environments. , 2013, , .		1
93	Performance Study of Multihop Transmission Schemes in a Binomial Interference Field. , 2015, , .		1
94	On the SINR statistics of a VFDM cognitive spectrum sharing system. Physical Communication, 2017, 24, 195-200.	1.2	1
95	Evaluation of Interoperability Criteria and Mechanisms for Seamless Inter-Working Between UMTS-HSDPA and WLAN Networks Enhanced with MIMO Techniques. Wireless Personal Communications, 2004, 30, 119-129.	1.8	0
96	Correction to "Error Rate Analysis of Threshold-Based Hybrid Selection/Maximal-Ratio Combining over Correlated Nakagami-m Fading Channels". IEEE Communications Letters, 2008, 12, 407-407.	2.5	0
97	Bit Error and Outage Probability of Serial Relaying Communication Systems. , 2010, , .		0
98	Impact of channel modeling on accurate estimation of on-body channel capacity. , 2012, , .		0
99	Exact and asymptotic analysis of dual-hop AF systems in Nakagami-m fading with Rayleigh interferers. , 2016, , .		0
100	Spatial Modulation for V2V and V2I Communications in a Multiple Scattering Environment. , 2016, , .		0
101	VLSI Implementation of Optimal Detection for Spatial Modulation. , 2019, , .		0