Bayram Cevdet Akdeniz

List of Publications by Year
in descending order

28 papers	221 citations	1307594 7 h-index	1058476 14 g-index
28 all docs	28 docs citations	28 times ranked	171 citing authors

#	Article	IF	Citations
1	Stochastic reaction and diffusion systems in molecular communications: Recent results and open problems. , 2022, 124, 103117.		9
2	Multiple transmitter localization via single receiver in 3-D molecular communication via diffusion. , 2022, 124, 103185.		10
3	Equilibrium Signaling: Molecular Communication Robust to Geometry Uncertainties. IEEE Transactions on Communications, 2021, 69, 752-765.	7.8	7
4	Analytical Investigation of Long-Time Diffusion Dynamics in a Synaptic Channel With Glial Cells. IEEE Communications Letters, 2021, 25, 3444-3448.	4.1	2
5	Molecular Communication for Equilibrium State Estimation in Biochemical Processes on a Lab-on-a-Chip. IEEE Transactions on Nanobioscience, 2021, 20, 193-201.	3.3	3
6	Equilibrium Signaling in Spatially Inhomogeneous Diffusion and External Forces. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 106-110.	2.1	2
7	ISI-Mitigating Channel Codes for Molecular Communication Via Diffusion. IEEE Access, 2020, 8, 24588-24599.	4.2	19
8	Multi-level equilibrium signaling for molecular communication. , 2020, , .		1
9	A Molecular Communication Scheme to Estimate the State of Biochemical Processes on a Lab-on-a-Chip. , 2020, , .		1
10	Spatial Receptor Allocation for a Multiple Access Hub in Nanonetworks. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2019, 5, 63-67.	2.1	2
11	The effective geometry Monte Carlo algorithm: Applications to molecular communication. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2594-2603.	2.1	2
12	A General Analytical Approximation to Impulse Response of 3-D Microfluidic Channels in Molecular Communication. IEEE Transactions on Nanobioscience, 2019, 18, 396-403.	3.3	14
13	Analytical derivation of the impulse response for the bounded 2-D diffusion channel. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1589-1600.	2.1	3
14	A Reactive Signaling Approach to Ensure Coexistence Between Molecular Communication and External Biochemical Systems. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2019, 5, 247-250.	2.1	4
15	On the Input-Output Relationship for Molecular Communications in General First-Order Chemical Reaction-Diffusion Systems. , 2019, , .		1
16	Position-based modulation in molecular communications. Nano Communication Networks, 2018, 16, 60-68.	2.9	25
17	Optimal Reception Delay in Diffusion-Based Molecular Communication. IEEE Communications Letters, 2018, 22, 57-60.	4.1	32
18	Impulse Response of the Molecular Diffusion Channel With a Spherical Absorbing Receiver and a Spherical Reflective Boundary. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2018, 4, 118-122.	2.1	15

#	Article	IF	Citations
19	Molecular Signal Modeling of a Partially Counting Absorbing Spherical Receiver. IEEE Transactions on Communications, 2018, 66, 6237-6246.	7.8	18
20	Transmitter Localization in Vessel-Like Diffusive Channels Using Ring-Shaped Molecular Receivers. IEEE Communications Letters, 2018, 22, 2511-2514.	4.1	24
21	A Network Coding Approach for Multi-Hop Nanonetworks in Molecular Communication. , 2018, , .		2
22	Error Probability Calculation with Reduced Complexity for Molecular Communications. , 2018, , .		3
23	On the performance of the modulation methods in time-varying molecular communication channels. , 2017, , .		0
24	A novel concentration-type based modulation in molecular communication. , 2017, , .		3
25	Novel network coding approaches for diffusionâ€based molecular nanonetworks. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3105.	3.9	7
26	2-D channel transfer function for Molecular Communication with an absorbing receiver. , 2017, , .		4
27	Two-way communication systems in molecular communication. , 2017, , .		7
28	Network Coding applications in molecular communication. , 2015, , .		1