Brian E Fratto

List of Publications by Year
in descending order

10 papers	242 citations	1163117 8 h-index	1372567 10 g-index
10 all docs	10 docs citations	10 times ranked	143 citing authors

#	Article	IF	Citations
1	Reversible Logic Gates Based on Enzyme–Biocatalyzed Reactions and Realized in Flow Cells: A Modular Approach. ChemPhysChem, 2015, 16, 1405-1415.	2.1	49
2	Enzymatic AND Logic Gate with Sigmoid Response Induced by Photochemically Controlled Oxidation of the Output. Journal of Physical Chemistry B, 2013, 117, 7559-7568.	2.6	46
3	Bioelectronic Interface Connecting Reversible Logic Gates Based on Enzyme and DNA Reactions. ChemPhysChem, 2016, 17, 2247-2255.	2.1	35
4	Controlled Logic Gates—Switch Gate and Fredkin Gate Based on Enzyme–Biocatalyzed Reactions Realized in Flow Cells. ChemPhysChem, 2016, 17, 1046-1053.	2.1	35
5	An Enzyme–Based Half–Adder and Half–Subtractor with a Modular Design. ChemPhysChem, 2016, 17, 2210-2217.	2.1	25
6	Enzyme-based logic gates switchable between OR, NXOR and NAND Boolean operations realized in a flow system. Chemical Communications, 2014, 50, 12043-12046.	4.1	22
7	Biomolecular Computing Realized in Parallel Flow Systems: Enzyme-Based Double Feynman Logic Gate. Parallel Processing Letters, 2015, 25, 1540001.	0.6	11
8	Utilization of a fluidic infrastructure for the realization of enzyme-based Boolean logic operations. International Journal of Parallel, Emergent and Distributed Systems, 2017, 32, 139-156.	1.0	8
9	An Enzyme–based 1:2 Demultiplexer Interfaced with an Electrochemical Actuator. ChemPhysChem, 2017, 18, 1721-1725.	2.1	6
10	Design of Flow Systems for Improved Networking and Reduced Noise in Biomolecular Signal Processing in Biocomputing and Biosensing Applications. Sensors, 2016, 16, 1042.	3.8	5