Emrah Eroglu

List of Publications by Year
in descending order

33 papers	1,230 citations	516710 16 h-index	477307 29 g-index
36 all docs	36 docs citations	36 times ranked	1899 citing authors

#	Article	IF	Citations
1	Chemogenetic Approaches to Probe Redox Pathways: Implications for Cardiovascular Pharmacology and Toxicology. Annual Review of Pharmacology and Toxicology, 2022, 62, 551-571.	9.4	8
2	Metabolomic and transcriptomic signatures of chemogenetic heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H451-H465.	3.2	14
3	Chemogenetic approaches to dissect the role of H2O2 in redox-dependent pathways using genetically encoded biosensors. Biochemical Society Transactions, 2022, 50, 335-345.	3.4	2
4	Nitric oxide biosensor uncovers diminished ferrous iron-dependency of cultured cells adapted to physiological oxygen levels. Redox Biology, 2022, 53, 102319.	9.0	7
5	Sirtuin 6 (SIRT6) regulates redox homeostasis and signaling events in human articular chondrocytes. Free Radical Biology and Medicine, 2021, 166, 90-103.	2.9	30
6	A Co-Culture-Based Multiparametric Imaging Technique to Dissect Local H2O2 Signals with Targeted HyPer7. Biosensors, 2021, 11, 338.	4.7	7
7	Complexities of the chemogenetic toolkit: Differential mDAAO activation by d-amino substrates and subcellular targeting. Free Radical Biology and Medicine, 2021, 177, 132-142.	2.9	8
8	In vivo applications of chemogenetics in redox (patho)biology. , 2020, , 97-112.		0
9	Differential endothelial signaling responses elicited by chemogenetic H2O2 synthesis. Redox Biology, 2020, 36, 101605.	9.0	24
10	Ultrasensitive Genetically Encoded Indicator for Hydrogen Peroxide Identifies Roles for the Oxidant in Cell Migration and Mitochondrial Function. Cell Metabolism, 2020, 31, 642-653.e6.	16.2	202
11	Yes (again) to local NO. Nature Chemical Biology, 2020, 16, 606-607.	8.0	0
12	Reversal of heart failure in a chemogenetic model of persistent cardiac redox stress. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H617-H626.	3.2	22
13	MICU1 controls cristae junction and spatially anchors mitochondrial Ca2+ uniporter complex. Nature Communications, 2019, 10, 3732.	12.8	90
14	Discordance between eNOS phosphorylation and activation revealed by multispectral imaging and chemogenetic methods. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20210-20217.	7.1	40
15	Development and Application of Sub-Mitochondrial Targeted Ca2 + Biosensors. Frontiers in Cellular Neuroscience, 2019, 13, 449.	3.7	11
16	Live cell imaging of signaling and metabolic activities. , 2019, 202, 98-119.		41
17	pH-Lemon, a Fluorescent Protein-Based pH Reporter for Acidic Compartments. ACS Sensors, 2019, 4, 883-891.	7.8	99
18	Real-Time Imaging of Nitric Oxide Signals in Individual Cells Using geNOps. Methods in Molecular Biology, 2018, 1747, 23-34.	0.9	8

#	Article	IF	Citations
19	Genetic biosensors for imaging nitric oxide in single cells. Free Radical Biology and Medicine, 2018, 128, 50-58.	2.9	36
20	Sustained Formation of Nitroglycerin-Derived Nitric Oxide by Aldehyde Dehydrogenase-2 in Vascular Smooth Muscle without Added Reductants: Implications for the Development of Nitrate Tolerance. Molecular Pharmacology, 2018, 93, 335-343.	2.3	7
21	Real-Time Imaging of Mitochondrial ATP Dynamics Reveals the Metabolic Setting of Single Cells. Cell Reports, 2018, 25, 501-512.e3.	6.4	91
22	High-Resolution Imaging of STIM/Orai Subcellular Localization Using Array Confocal Laser Scanning Microscopy. Methods in Molecular Biology, 2018, 1843, 175-187.	0.9	1
23	Intact mitochondrial Ca 2+ uniport is essential for agonist-induced activation of endothelial nitric oxide synthase (eNOS). Free Radical Biology and Medicine, 2017, 102, 248-259.	2.9	28
24	Application of Genetically Encoded Fluorescent Nitric Oxide (NO•) Probes, the geNOps, for Real-time Imaging of NO• Signals in Single Cells. Journal of Visualized Experiments, 2017, , .	0.3	16
25	Real-time visualization of distinct nitric oxide generation of nitric oxide synthase isoforms in single cells. Nitric Oxide - Biology and Chemistry, 2017, 70, 59-67.	2.7	22
26	Novel genetically encoded fluorescent probes enable real-time detection of potassium in vitro and in vivo. Nature Communications, 2017, 8, 1422.	12.8	130
27	Development of novel FP-based probes for live-cell imaging of nitric oxide dynamics. Nature Communications, 2016, 7, 10623.	12.8	84
28	Resveratrol Specifically Kills Cancer Cells by a Devastating Increase in the Ca2+ Coupling Between the Greatly Tethered Endoplasmic Reticulum and Mitochondria. Cellular Physiology and Biochemistry, 2016, 39, 1404-1420.	1.6	84
29	Formation of Nitric Oxide by Aldehyde Dehydrogenase-2 Is Necessary and Sufficient for Vascular Bioactivation of Nitroglycerin. Journal of Biological Chemistry, 2016, 291, 24076-24084.	3.4	31
30	Development of novel fluorescent protein-based probes for live-cell imaging of nitric oxide dynamics. Free Radical Biology and Medicine, 2016, 96, S18.	2.9	0
31	PRMT1-mediated methylation of MICU1 determines the UCP2/3 dependency of mitochondrial Ca2+ uptake in immortalized cells. Nature Communications, 2016, 7, 12897.	12.8	59
32	Filling a GAPâ€”An Optimized Probe for ER Ca 2+ Imaging InÂVivo. Cell Chemical Biology, 2016, 23, 641-643.	5.2	2
33	Generation of Red-Shifted Cameleons for Imaging Ca2+ Dynamics of the Endoplasmic Reticulum. Sensors, 2015, 15, 13052-13068.	3.8	26