

Laura Segatori

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

6,929
citations

304743

22
h-index

243625

44
g-index

47
all docs

47
docs citations

47
times ranked

16878
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Antioxidant Properties of Cerium Oxide Nanocrystals as a Function of Nanocrystal Diameter and Surface Coating. <i>ACS Nano</i> , 2013, 7, 9693-9703.	14.6	338
3	Chemical and Biological Approaches Synergize to Ameliorate Protein-Folding Diseases. <i>Cell</i> , 2008, 134, 769-781.	28.9	332
4	Preparative expression of secreted proteins in bacteria: status report and future prospects. <i>Current Opinion in Biotechnology</i> , 2005, 16, 538-545.	6.6	186
5	Genetic and Chemical Activation of TFEB Mediates Clearance of Aggregated α -Synuclein. <i>PLoS ONE</i> , 2015, 10, e0120819.	2.5	116
6	TFEB regulates lysosomal proteostasis. <i>Human Molecular Genetics</i> , 2013, 22, 1994-2009.	2.9	110
7	Ceria Nanoparticles Stabilized by Organic Surface Coatings Activate the Lysosome-Autophagy System and Enhance Autophagic Clearance. <i>ACS Nano</i> , 2014, 8, 10328-10342.	14.6	103
8	2-Hydroxypropyl- β -cyclodextrin Promotes Transcription Factor EB-mediated Activation of Autophagy. <i>Journal of Biological Chemistry</i> , 2014, 289, 10211-10222.	3.4	92
9	Inhibition of Endoplasmic Reticulum-associated Degradation Rescues Native Folding in Loss of Function Protein Misfolding Diseases. <i>Journal of Biological Chemistry</i> , 2011, 286, 43454-43464.	3.4	87
10	Detection of α -Synuclein Amyloidogenic Aggregates <i>in Vitro</i> and in Cells using Light-Switching Dipyridophenazine Ruthenium(II) Complexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 20776-20782.	13.7	83
11	CLN8 is an endoplasmic reticulum cargo receptor that regulates lysosome biogenesis. <i>Nature Cell Biology</i> , 2018, 20, 1370-1377.	10.3	80
12	Chemical Induction of Hsp70 Reduces α -Synuclein Aggregation in Neuroglioma Cells. <i>ACS Chemical Biology</i> , 2013, 8, 1460-1468.	3.4	61
13	Rapid Detection of Pathogenic Bacteria and Screening of Phage-Derived Peptides Using Microcantilevers. <i>Analytical Chemistry</i> , 2014, 86, 1671-1678.	6.5	56
14	The autophagic response to polystyrene nanoparticles is mediated by transcription factor EB and depends on surface charge. <i>Journal of Nanobiotechnology</i> , 2015, 13, 87.	9.1	48
15	Engineered DsbC chimeras catalyze both protein oxidation and disulfide-bond isomerization in <i>Escherichia coli</i> : Reconciling two competing pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10018-10023.	7.1	46
16	Differential autophagic responses to nano-sized materials. <i>Current Opinion in Biotechnology</i> , 2015, 36, 129-136.	6.6	39
17	Conserved Role of the Linker α -Helix of the Bacterial Disulfide Isomerase DsbC in the Avoidance of Misoxidation by DsbB. <i>Journal of Biological Chemistry</i> , 2006, 281, 4911-4919.	3.4	32
18	A Naturally Encoded Dipeptide Handle for Bioorthogonal Chan α -Lam Coupling. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4015-4019.	13.8	32

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19	Autophagic response to cellular exposure to titanium dioxide nanoparticles. <i>Acta Biomaterialia</i> , 2018, 79, 354-363.	8.3	32
20	Ca ²⁺ Homeostasis Modulation Enhances the Amenability of L444P Glucosylcerebrosidase to Proteostasis Regulation in Patient-Derived Fibroblasts. <i>ACS Chemical Biology</i> , 2011, 6, 158-168.	3.4	28
21	Lacidipine Remodels Protein Folding and Ca ²⁺ Homeostasis in Gaucher's Disease Fibroblasts: A Mechanism to Rescue Mutant Glucocerebrosidase. <i>Chemistry and Biology</i> , 2011, 18, 766-776.	6.0	28
22	Sensitive detection of proteasomal activation using the Deg-On mammalian synthetic gene circuit. <i>Nature Communications</i> , 2014, 5, 3612.	12.8	24
23	Increased resistance to oxysterol cytotoxicity in fibroblasts transfected with a lysosomally targeted <i>Chromobacterium</i> oxidase. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2409-2415.	3.3	22
24	Quantitative Analysis of α -Synuclein Solubility in Living Cells Using Split GFP Complementation. <i>PLoS ONE</i> , 2012, 7, e43505.	2.5	21
25	Remodeling the Proteostasis Network to Rescue Glucocerebrosidase Variants by Inhibiting ER-Associated Degradation and Enhancing ER Folding. <i>PLoS ONE</i> , 2013, 8, e61418.	2.5	21
26	Impairment of homeostasis in lysosomal storage disorders. <i>IUBMB Life</i> , 2014, 66, 472-477.	3.4	21
27	A Split Transcriptional Repressor That Links Protein Solubility to an Orthogonal Genetic Circuit. <i>ACS Synthetic Biology</i> , 2018, 7, 2126-2138.	3.8	21
28	Probing the association of triblock copolymers with supported lipid membranes using microcantilevers. <i>Soft Matter</i> , 2014, 10, 6417-6424.	2.7	20
29	Quantitatively Predictable Control of Cellular Protein Levels through Proteasomal Degradation. <i>ACS Synthetic Biology</i> , 2018, 7, 540-552.	3.8	19
30	De Novo Design and Evolution of Artificial Disulfide Isomerase Enzymes Analogous to the Bacterial DsbC. <i>Journal of Biological Chemistry</i> , 2008, 283, 31469-31476.	3.4	16
31	Structure of DsbC from <i>Haemophilus influenzae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1512-1518.	2.5	15
32	A Rapid and Sensitive Method for Measuring N-Acetylglucosaminidase Activity in Cultured Cells. <i>PLoS ONE</i> , 2013, 8, e68060.	2.5	14
33	Aggregation Behavior of Nanoparticle-Peptide Systems Affects Autophagy. <i>Bioconjugate Chemistry</i> , 2019, 30, 1986-1997.	3.6	13
34	The importance and future of biochemical engineering. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2305-2318.	3.3	13
35	A Naturally Encoded Dipeptide Handle for Bioorthogonal Chan-Lam Coupling. <i>Angewandte Chemie</i> , 2018, 130, 4079-4083.	2.0	10
36	Zinc Oxide Particles Induce Activation of the Lysosome Autophagy System. <i>ACS Omega</i> , 2019, 4, 573-581.	3.5	9

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37	A gene signal amplifier platform for monitoring the unfolded protein response. <i>Nature Chemical Biology</i> , 2020, 16, 520-528.	8.0	8
38	Overcoming component limitations in synthetic biology through transposon-mediated protein engineering. <i>Methods in Enzymology</i> , 2019, 621, 191-212.	1.0	7
39	TFEB-mediated activation of the lysosome-autophagy system affects the transduction efficiency of adeno-associated virus 2. <i>Virology</i> , 2017, 510, 1-8.	2.4	6
40	Input-dependent post-translational control of the reporter output enhances dynamic resolution of mammalian signaling systems. <i>Methods in Enzymology</i> , 2019, 622, 1-27.	1.0	6
41	Lipid Bilayer Phase Transformations Detected Using Microcantilevers. <i>Journal of Physical Chemistry B</i> , 2014, 118, 171-178.	2.6	5
42	Hysteretic Genetic Circuit for Detection of Proteasomal Degradation in Mammalian Cells. <i>ACS Synthetic Biology</i> , 2019, 8, 2025-2035.	3.8	3
43	A platform for post-translational spatiotemporal control of cellular proteins. <i>Synthetic Biology</i> , 2021, 6, ysab002.	2.2	3
44	Development of an ELISA-based screening assay for the selection of α -Synuclein Phosphorylation modulators. <i>FASEB Journal</i> , 2010, 24, 522.1.	0.5	1
45	A Platform Technology for Monitoring the Unfolded Protein Response. <i>Methods in Molecular Biology</i> , 2022, 2378, 45-67.	0.9	1
46	A yeast selection system for the detection of proteasomal activation. <i>Protein Engineering, Design and Selection</i> , 2018, 31, 437-445.	2.1	0
47	Open questions: how do engineered nanomaterials affect our cells?. <i>BMC Biology</i> , 2020, 18, 176.	3.8	0