

# Lars Plate

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,338  
citations

331670

21  
h-index

330143

37  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3191  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward “Omic Scale Metabolite Profiling: A Dual Separation” Mass Spectrometry Approach for Coverage of Lipid and Central Carbon Metabolism. <i>Analytical Chemistry</i> , 2013, 85, 6876-6884.	6.5	242
2	Arylfluorosulfates Inactivate Intracellular Lipid Binding Protein(s) through Chemoselective SuFEx Reaction with a Binding Site Tyr Residue. <i>Journal of the American Chemical Society</i> , 2016, 138, 7353-7364.	13.7	212
3	“Inverse Drug Discovery” Strategy To Identify Proteins That Are Targeted by Latent Electrophiles As Exemplified by Aryl Fluorosulfates. <i>Journal of the American Chemical Society</i> , 2018, 140, 200-210.	13.7	206
4	Small molecule proteostasis regulators that reprogram the ER to reduce extracellular protein aggregation. <i>ELife</i> , 2016, 5, .	6.0	185
5	Nitric Oxide Modulates Bacterial Biofilm Formation through a Multicomponent Cyclic-di-GMP Signaling Network. <i>Molecular Cell</i> , 2012, 46, 449-460.	9.7	156
6	Pharmacologic ATF6 activation confers global protection in widespread disease models by reprogramming cellular proteostasis. <i>Nature Communications</i> , 2019, 10, 187.	12.8	140
7	Nitric oxide-sensing H-NOX proteins govern bacterial communal behavior. <i>Trends in Biochemical Sciences</i> , 2013, 38, 566-575.	7.5	96
8	Comparative Multiplexed Interactomics of SARS-CoV-2 and Homologous Coronavirus Nonstructural Proteins Identifies Unique and Shared Host-Cell Dependencies. <i>ACS Infectious Diseases</i> , 2020, 6, 3174-3189.	3.8	92
9	Pharmacologic IRE1/XBP1s activation confers targeted ER proteostasis reprogramming. <i>Nature Chemical Biology</i> , 2020, 16, 1052-1061.	8.0	90
10	Pharmacologic ATF6 activating compounds are metabolically activated to selectively modify endoplasmic reticulum proteins. <i>ELife</i> , 2018, 7, .	6.0	85
11	Unfolded protein response activation reduces secretion and extracellular aggregation of amyloidogenic immunoglobulin light chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13046-13051.	7.1	83
12	Regulating Secretory Proteostasis through the Unfolded Protein Response: From Function to Therapy. <i>Trends in Cell Biology</i> , 2017, 27, 722-737.	7.9	70
13	Regulated in Development and DNA Damage Response 1 Deficiency Impairs Autophagy and Mitochondrial Biogenesis in Articular Cartilage and Increases the Severity of Experimental Osteoarthritis. <i>Arthritis and Rheumatology</i> , 2017, 69, 1418-1428.	5.6	66
14	The unfolded protein response regulator ATF6 promotes mesodermal differentiation. <i>Science Signaling</i> , 2018, 11, .	3.6	54
15	Ceapins block the unfolded protein response sensor ATF6 <sup>1±</sup> by inducing a neomorphic inter-organellar tether. <i>ELife</i> , 2019, 8, .	6.0	46
16	Deconvoluting Stress-Responsive Proteostasis Signaling Pathways for Pharmacologic Activation Using Targeted RNA Sequencing. <i>ACS Chemical Biology</i> , 2019, 14, 784-795.	3.4	45
17	Peptide probes detect misfolded transthyretin oligomers in plasma of hereditary amyloidosis patients. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	44
18	Insulin-like growth factor 2 (IGF2) protects against Huntington’s disease through the extracellular disposal of protein aggregates. <i>Acta Neuropathologica</i> , 2020, 140, 737-764.	7.7	43

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19	The endoplasmic reticulum <scp>HSP</scp>40 coâ€chaperone <scp>ER</scp>dj3/<scp>DNAJB</scp>11 assembles and functions as a tetramer. EMBO Journal, 2017, 36, 2296-2309.	7.8	38
20	Determinants of Ligand Affinity and Heme Reactivity in Hâ€NOX Domains. Angewandte Chemie - International Edition, 2010, 49, 720-723.	13.8	33
21	Use of a semisynthetic epitope to probe histidine kinase activity and regulation. Analytical Biochemistry, 2010, 397, 139-143.	2.4	28
22	Quantitative Interactome Proteomics Reveals a Molecular Basis for ATF6-Dependent Regulation of a Destabilized Amyloidogenic Protein. Cell Chemical Biology, 2019, 26, 913-925.e4.	5.2	26
23	Thyroglobulin Interactome Profiling Defines Altered Proteostasis Topology Associated With Thyroid Dyshormonogenesis. Molecular and Cellular Proteomics, 2021, 20, 100008.	3.8	25
24	Enforced dimerization between XBP1s and ATF6f enhances the protective effects of the UPR in models of neurodegeneration. Molecular Therapy, 2021, 29, 1862-1882.	8.2	25
25	Phosphorylation-dependent derepression by the response regulator HnoC in the <i>Shewanella oneidensis</i> nitric oxide signaling network. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4648-57.	7.1	24
26	Small-molecule endoplasmic reticulum proteostasis regulator acts as a broad-spectrum inhibitor of dengue and Zika virus infections. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
27	Apoptolidin family glycomacrolides target leukemia through inhibition of ATP synthase. Nature Chemical Biology, 2022, 18, 360-367.	8.0	20
28	Hyaluronan-Tethered Opioid Depots: Synthetic Strategies and Release Kinetics <i>In Vitro</i> and <i>In Vivo</i>. Bioconjugate Chemistry, 2008, 19, 1767-1774.	3.6	15
29	Comparative Host Interactomes of the SARS-CoV-2 Nonstructural Protein 3 and Human Coronavirus Homologs. Molecular and Cellular Proteomics, 2021, 20, 100120.	3.8	15
30	Methodology To Probe Subunit Interactions in Ribonucleotide Reductases. Biochemistry, 2008, 47, 13046-13055.	2.5	14
31	Modulating protein quality control. ELife, 2016, 5, .	6.0	12
32	Glycosylation limits forward trafficking of the tetraspan membrane protein PMP22. Journal of Biological Chemistry, 2021, 296, 100719.	3.4	12
33	Mutation in protein disulfide isomerase A3 causes neurodevelopmental defects by disturbing endoplasmic reticulum proteostasis. EMBO Journal, 2022, 41, e105531.	7.8	11
34	Protein disulfide isomerase ERp57 protects early muscle denervation in experimental ALS. Acta Neuropathologica Communications, 2021, 9, 21.	5.2	10
35	Structural Comparative Modeling of Multi-Domain F508del CFTR. Biomolecules, 2022, 12, 471.	4.0	10
36	Revealing functional insights into ER proteostasis through proteomics and interactomics. Experimental Cell Research, 2021, 399, 112417.	2.6	8

#	ARTICLE	IF	CITATIONS
37	High-Throughput Screen Identifies Novel Small Molecule Stress Regulator That Confers Cardioprotection During Ischemia-Reperfusion Injury. Journal of Molecular and Cellular Cardiology, 2017, 112, 154.	1.9	0
38	Pharmacologic ATF6 Activation Confers Global Protection in Widespread Disease Models by Reprogramming Cellular Proteostasis. Journal of Molecular and Cellular Cardiology, 2018, 124, 97.	1.9	0
39	Premature Activation of Immune Transcription Programs in Autoimmune-Predisposed Mouse Embryonic Stem Cells and Blastocysts. International Journal of Molecular Sciences, 2020, 21, 5743.	4.1	0
40	The Unfolded Protein Response Regulator, ATF6, Promotes Mesodermal Differentiation. FASEB Journal, 2018, 32, 542.23.	0.5	0
41	Abstract 547: Pharmacologic ATF6 Activation Confers Global Protection in Widespread Disease Models by Reprogramming Cellular Proteostasis. Circulation Research, 2018, 123, .	4.5	0