Mar Orzaez

List of Publications by Citations

79 papers	1,829 citations	26 h-index	39 g-index
87 ext. papers	2,138 ext. citations	6.2 avg, IF	4.51 L-index

#	Paper	IF	Citations
79	Membrane promotes tBID interaction with BCL(XL). *Nature Structural and Molecular Biology*, **2009**, 16, 1178-85	17.6	106
78	In vivo discovery of a peptide that prevents CUG-RNA hairpin formation and reverses RNA toxicity in myotonic dystrophy models. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 11866-71	11.5	79
77	Enzyme-responsive intracellular-controlled release using silica mesoporous nanoparticles capped with ε-poly-L-lysine. *Chemistry - A European Journal*, **2014**, 20, 5271-81	4.8	71
76	MUC1 aptamer-capped mesoporous silica nanoparticles for controlled drug delivery and radio-imaging applications. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 2495-2505	6	70
75	Nitration of tyrosine 74 prevents human cytochrome c to play a key role in apoptosis signaling by blocking caspase-9 activation. *Biochimica Et Biophysica Acta - Bioenergetics*, **2010**, 1797, 981-93	4.6	65
74	Small molecule inhibitors of Apaf-1-related caspase- 3/-9 activation that control mitochondrial-dependent apoptosis. *Cell Death and Differentiation*, **2006**, 13, 1523-32	12.7	64
73	Modulation of cellular apoptosis with apoptotic protease-activating factor 1 (Apaf-1) inhibitors. *Journal of Medicinal Chemistry*, **2008**, 51, 521-9	8.3	61
72	Temperature-controlled release by changes in the secondary structure of peptides anchored onto mesoporous silica supports. *Chemical Communications*, **2014**, 50, 3184-6	5.8	56
71	Bax transmembrane domain interacts with prosurvival Bcl-2 proteins in biological membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 310-315	11.5	54
70	Tyrosine phosphorylation turns alkaline transition into a biologically relevant process and makes human cytochrome c behave as an anti-apoptotic switch. *Journal of Biological Inorganic Chemistry*, **2011**, 16, 1155-68	3.7	54
69	Influence of proline residues in transmembrane helix packing. *Journal of Molecular Biology*, **2004**, 335, 631-40	6.5	54
68	Cytochrome c speeds up caspase cascade activation by blocking 14-3-3ε-dependent Apaf-1 inhibition. *Cell Death and Disease*, **2018**, 9, 365	9.8	49
67	Inhibiting the calcineurin-NFAT (nuclear factor of activated T cells) signaling pathway with a regulator of calcineurin-derived peptide without affecting general calcineurin phosphatase activity. *Journal of Biological Chemistry*, **2009**, 284, 9394-401	5.4	47
66	The chemistry of senescence. *Nature Reviews Chemistry*, **2019**, 3, 426-441	34.6	44
65	Gold Nanostars Coated with Mesoporous Silica Are Effective and Nontoxic Photothermal Agents Capable of Gate Keeping and Laser-Induced Drug Release. *ACS Applied Materials & Interfaces*, **2018**, 10, 27644-27656	9.5	44
64	Cathepsin-B induced controlled release from peptide-capped mesoporous silica nanoparticles. *Chemistry - A European Journal*, **2014**, 20, 15309-14	4.8	42
63	Identification of an hexapeptide that binds to a surface pocket in cyclin A and inhibits the catalytic activity of the complex cyclin-dependent kinase 2-cyclin A. *Journal of Biological Chemistry*, **2006**, 281, 35942-53	5.4	37

62	Enzyme-responsive silica mesoporous supports capped with azopyridinium salts for controlled delivery applications. *Chemistry - A European Journal*, **2013**, 19, 1346-56	4.8	35
61	Specific nitration of tyrosines 46 and 48 makes cytochrome c assemble a non-functional apoptosome. *FEBS Letters*, **2012**, 586, 154-8	3.8	34
60	A polymeric nanomedicine diminishes inflammatory events in renal tubular cells. *PLoS ONE*, **2013**, 8, e51992	3.7	31
59	A chemical inhibitor of Apaf-1 exerts mitochondrioprotective functions and interferes with the intra-S-phase DNA damage checkpoint. *Apoptosis: an International Journal on Programmed Cell Death*, **2009**, 14, 182-90	5.4	31
58	Influence of hydrophobic matching on association of model transmembrane fragments containing a minimised glycophorin A dimerisation motif. *FEBS Letters*, **2005**, 579, 1633-8	3.8	30
57	Conjugation of a novel Apaf-1 inhibitor to peptide-based cell-membrane transporters: effective methods to improve inhibition of mitochondria-mediated apoptosis. *Peptides*, **2007**, 28, 958-68	3.8	29
56	Influence of the C-terminus of the glycophorin A transmembrane fragment on the dimerization process. *Protein Science*, **2000**, 9, 1246-53	6.3	28
55	A nanoconjugate Apaf-1 inhibitor protects mesothelial cells from cytokine-induced injury. *PLoS ONE* , **2009**, 4, e6634	3.7	27
54	Preclinical antitumor efficacy of senescence-inducing chemotherapy combined with a nanoSenolytic. *Journal of Controlled Release*, **2020**, 323, 624-634	11.7	27
53	Minocycline inhibits cell death and decreases mutant Huntingtin aggregation by targeting Apaf-1. *Human Molecular Genetics*, **2011**, 20, 3545-53	5.6	25
52	Targeting inflammasome by the inhibition of caspase-1 activity using capped mesoporous silica nanoparticles. *Journal of Controlled Release*, **2017**, 248, 60-70	11.7	24
51	The past, present, and future of breast cancer models for nanomedicine development. *Advanced Drug Delivery Reviews*, **2021**, 173, 306-330	18.5	22
50	Azobenzene polyesters used as gate-like scaffolds in nanoscopic hybrid systems. *Chemistry - A European Journal*, **2012**, 18, 13068-78	4.8	20
49	Polar/Ionizable residues in transmembrane segments: effects on helix-helix packing. *PLoS ONE*, **2012**, 7, e44263	3.7	20
48	Janus Gold Nanostars-Mesoporous Silica Nanoparticles for NIR-Light-Triggered Drug Delivery. *Chemistry - A European Journal*, **2019**, 25, 8471-8478	4.8	19
47	Apaf1 inhibition promotes cell recovery from apoptosis. *Protein and Cell*, **2015**, 6, 833-43	7.2	19
46	Intrinsic caspase-8 activation mediates sensitization of erlotinib-resistant tumor cells to erlotinib/cell-cycle inhibitors combination treatment. *Cell Death and Disease*, **2012**, 3, e415	9.8	19
45	Apaf-1 inhibitors protect from unwanted cell death in in vivo models of kidney ischemia and chemotherapy induced ototoxicity. *PLoS ONE*, **2014**, 9, e110979	3.7	18

44	Molecules that modulate Apaf-1 activity. *Medicinal Research Reviews*, **2011**, 31, 649-75	14.4	18
43	ATP-noncompetitive inhibitors of CDK-cyclin complexes. *ChemMedChem*, **2009**, 4, 19-24	3.7	18
42	Optimizing the control of apoptosis by amide/triazole isosteric substitution in a constrained peptoid. *European Journal of Medicinal Chemistry*, **2013**, 63, 892-6	6.8	17
41	L-Aminoacid Oxidase from Bothrops leucurus Venom Induces Nephrotoxicity via Apoptosis and Necrosis. *PLoS ONE*, **2015**, 10, e0132569	3.7	17
40	Rational design of new class of BH3-mimetics as inhibitors of the Bcl-xL protein. *Journal of Chemical Information and Modeling*, **2011**, 51, 1249-58	6.1	17
39	Real-Time In Vivo Detection of Cellular Senescence through the Controlled Release of the NIR Fluorescent Dye Nile Blue. *Angewandte Chemie - International Edition*, **2020**, 59, 15152-15156	16.4	14
38	A NIR light-triggered drug delivery system using core-shell gold nanostars-mesoporous silica nanoparticles based on multiphoton absorption photo-dissociation of 2-nitrobenzyl PEG. *Chemical Communications*, **2019**, 55, 9039-9042	5.8	14
37	Deciphering the antitumoral activity of quinacrine: Binding to and inhibition of Bcl-xL. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 1592-5	2.9	14
36	Discovery of inhibitors of protein-protein interactions from combinatorial libraries. *Current Topics in Medicinal Chemistry*, **2007**, 7, 83-95	3	14
35	Hybrid Mesoporous Nanocarriers Act by Processing Logic Tasks: Toward the Design of Nanobots Capable of Reading Information from the Environment. *ACS Applied Materials & Interfaces*, **2018**, 10, 26494-26500	9.5	13
34	Peptides derived from the transmembrane domain of Bcl-2 proteins as potential mitochondrial priming tools. *ACS Chemical Biology*, **2014**, 9, 1799-811	4.9	13
33	Rational design of a cyclin A fluorescent peptide sensor. *Organic and Biomolecular Chemistry*, **2011**, 9, 7629-32	3.9	13
32	Caspase 3 Targeted Cargo Delivery in Apoptotic Cells Using Capped Mesoporous Silica Nanoparticles. *Chemistry - A European Journal*, **2015**, 21, 15506-10	4.8	12
31	BH3-mimetics- and cisplatin-induced cell death proceeds through different pathways depending on the availability of death-related cellular components. *PLoS ONE*, **2013**, 8, e56881	3.7	11
30	Polypeptide modulators of caspase recruitment domain (CARD)-CARD-mediated protein-protein interactions. *Journal of Biological Chemistry*, **2011**, 286, 44457-66	5.4	11
29	Solid-phase Chemistry: A Useful Tool to Discover Modulators of Protein Interactions. *International Journal of Peptide Research and Therapeutics*, **2007**, 13, 281-293	2.1	11
28	Biocompatibility reduces inflammation-induced apoptosis in mesothelial cells exposed to peritoneal dialysis fluid. *Blood Purification*, **2015**, 39, 200-209	3.1	10
27	Bothropoides pauloensis venom effects on isolated perfused kidney and cultured renal tubular epithelial cells. *Toxicon*, **2015**, 108, 126-33	2.8	10

26	Efficient Synthesis of Conformationally Restricted Apoptosis Inhibitors Bearing a Triazole Moiety. *Chemistry - A European Journal*, **2015**, 21, 14122-8	4.8	10
25	Altered mitochondria morphology and cell metabolism in Apaf1-deficient cells. *PLoS ONE*, **2014**, 9, e84666	3.7	10
24	Mcl-1 and Bok transmembrane domains: Unexpected players in the modulation of apoptosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27980-27988	11.5	10
23	Synthesis of enantiomerically pure perhydro-1,4-diazepine-2,5-dione and 1,4-piperazine-2,5-dione derivatives exhibiting potent activity as apoptosis inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 7097-9	2.9	9
22	Characterization of dequalinium as a XIAP antagonist that targets the BIR2 domain. *Apoptosis: an International Journal on Programmed Cell Death*, **2011**, 16, 460-7	5.4	9
21	2,4-dinitrophenyl ether-containing chemodosimeters for the selective and sensitive in vitro and in vivo detection of hydrogen sulfide. *Supramolecular Chemistry*, **2015**, 27, 244-254	1.8	8
20	The C-terminal Domains of Apoptotic BH3-only Proteins Mediate Their Insertion into Distinct Biological Membranes. *Journal of Biological Chemistry*, **2016**, 291, 25207-25216	5.4	8
19	Role of CDK5/cyclin complexes in ischemia-induced death and survival of renal tubular cells. *Cell Cycle*, **2014**, 13, 1617-26	4.7	7
18	A fluorescent polarization-based assay for the identification of disruptors of the RCAN1-calcineurin A protein complex. *Analytical Biochemistry*, **2010**, 398, 99-103	3.1	7
17	EU-OPENSCREEN: A Novel Collaborative Approach to Facilitate Chemical Biology. *SLAS Discovery*, **2019**, 24, 398-413	3.4	7
16	Identification of an ASC oligomerization inhibitor for the treatment of inflammatory diseases.. *Cell Death and Disease*, **2021**, 12, 1155	9.8	6
15	Targeted-lung delivery of dexamethasone using gated mesoporous silica nanoparticles. A new therapeutic approach for acute lung injury treatment. *Journal of Controlled Release*, **2021**, 337, 14-26	11.7	5
14	Structure-based approach to the design of BakBH3 mimetic peptides with increased helical propensity. *Journal of Molecular Modeling*, **2013**, 19, 4305-18	2	4
13	Peptides and peptide mimics as modulators of apoptotic pathways. *ChemMedChem*, **2009**, 4, 146-60	3.7	4
12	MUC1 Aptamer-Capped Mesoporous Silica Nanoparticles for Navitoclax Resistance Overcoming in Triple-Negative Breast Cancer. *Chemistry - A European Journal*, **2020**, 26, 16318-16327	4.8	4
11	Inactivation of Apaf1 reduces the formation of mutant huntingtin-dependent aggregates and cell death. *Neuroscience*, **2014**, 262, 83-91	3.9	3
10	Identification and validation of uterine stimulant methylergometrine as a potential inhibitor of caspase-1 activation. *Apoptosis: an International Journal on Programmed Cell Death*, **2017**, 22, 1310-1318	5.4	3
9	Understanding MCL1: from cellular function and regulation to pharmacological inhibition. *FEBS Journal*, **2021**,	5.7	3

8	Real-Time In Vivo Detection of Cellular Senescence through the Controlled Release of the NIR Fluorescent Dye Nile Blue. *Angewandte Chemie*, **2020**, 132, 15264-15268	3.6	2
7	Gene-Directed Enzyme Prodrug Therapy by Dendrimer-Like Mesoporous Silica Nanoparticles against Tumor Cells. *Nanomaterials*, **2021**, 11,	5.4	2
6	Regioselective Synthesis of a Family of β-Lactams Bearing a Triazole Moiety as Potential Apoptosis Inhibitors. *ChemistryOpen*, **2016**, 5, 485-494	2.3	2
5	Senolysis Reduces Senescence in Veins and Cancer Cell Migration. *Advanced Therapeutics*, **2021**, 4, 2100149	4.9	2
4	Molecules That Bind a Central Protein Component of the Apoptosome, Apaf-1, and Modulate Its Activity **2010**, 75-94		1
3	Horseradish Peroxidase-Functionalized Gold Nanoconjugates for Breast Cancer Treatment Based on Enzyme Prodrug Therapy.. *International Journal of Nanomedicine*, **2022**, 17, 409-422	7.3	0
2	BOK-MCL1 transmembrane interactions: a challenging target for cancer therapy. *Molecular and Cellular Oncology*, **2021**, 8, 1859918	1.2	0
1	Structural and functional changes induced by tyrosine nitration in cytochrome c, a bi-functional protein. *Biochimica Et Biophysica Acta - Bioenergetics*, **2010**, 1797, 70	4.6	