

# Paolo Arosio

## List of Publications by Citations

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307  
papers

17,385  
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70  
h-index

122  
g-index

326  
ext. papers

20,071  
ext. citations

5.9  
avg, IF

6.84  
L-index

#	Paper	IF	Citations
307	The ferritins: molecular properties, iron storage function and cellular regulation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1996</b> , 1275, 161-203	4.6	1870
306	Ferritins: a family of molecules for iron storage, antioxidation and more. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2009</b> , 1790, 589-99	4	548
305	Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4661-4708	58.5	467
304	On the lag phase in amyloid fibril formation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 7606-18	3.6	421
303	Ferritin, iron homeostasis, and oxidative damage. <i>Free Radical Biology and Medicine</i> , <b>2002</b> , 33, 457-63	7.8	371
302	Molecular mechanisms of protein aggregation from global fitting of kinetic models. <i>Nature Protocols</i> , <b>2016</b> , 11, 252-72	18.8	342
301	The role of iron and copper molecules in the neuronal vulnerability of locus coeruleus and substantia nigra during aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 9843-8	11.5	342
300	Structure, function, and evolution of ferritins. <i>Journal of Inorganic Biochemistry</i> , <b>1992</b> , 47, 161-74	4.2	281
299	A human mitochondrial ferritin encoded by an intronless gene. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 24437-40	5.4	274
298	A molecular chaperone breaks the catalytic cycle that generates toxic A $\beta$ oligomers. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 207-213	17.6	268
297	A quantitative analysis of iso-ferritins in select regions of aged, parkinsonian, and Alzheimer's diseased brains. <i>Journal of Neurochemistry</i> , <b>1995</b> , 65, 717-24	6	243
296	Water-dispersible sugar-coated iron oxide nanoparticles. An evaluation of their relaxometric and magnetic hyperthermia properties. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10459-72	16.4	207
295	Cytosolic and mitochondrial ferritins in the regulation of cellular iron homeostasis and oxidative damage. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2010</b> , 1800, 783-92	4	205
294	New functions for an iron storage protein: the role of ferritin in immunity and autoimmunity. <i>Journal of Autoimmunity</i> , <b>2008</b> , 30, 84-9	15.5	194
293	Overexpression of wild type and mutated human ferritin H-chain in HeLa cells: in vivo role of ferritin ferroxidase activity. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 25122-9	5.4	192
292	Early embryonic lethality of H ferritin gene deletion in mice. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 3021-4	5.4	188
291	Iron Homeostasis in Health and Disease. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	185

290	Reconstitution of manganese oxide cores in horse spleen and recombinant ferritins. <i>Journal of Inorganic Biochemistry</i> , <b>1995</b> , 58, 59-68	4.2	172
289	Ferritin functions as a proinflammatory cytokine via iron-independent protein kinase C zeta/nuclear factor kappaB-regulated signaling in rat hepatic stellate cells. <i>Hepatology</i> , <b>2009</b> , 49, 887-900	11.2	167
288	The role of stable $\beta$ -synuclein oligomers in the molecular events underlying amyloid formation. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3859-68	16.4	163
287	Mitochondrial ferritin expression in erythroid cells from patients with sideroblastic anemia. <i>Blood</i> , <b>2003</b> , 101, 1996-2000	2.2	163
286	Chemical kinetics for drug discovery to combat protein aggregation diseases. <i>Trends in Pharmacological Sciences</i> , <b>2014</b> , 35, 127-35	13.2	161
285	The role of the L-chain in ferritin iron incorporation. Studies of homo and heteropolymers. <i>Journal of Molecular Biology</i> , <b>1994</b> , 238, 649-54	6.5	158
284	Kinetic analysis reveals the diversity of microscopic mechanisms through which molecular chaperones suppress amyloid formation. <i>Nature Communications</i> , <b>2016</b> , 7, 10948	17.4	153
283	Ferritin, cellular iron storage and regulation. <i>IUBMB Life</i> , <b>2017</b> , 69, 414-422	4.7	143
282	Multiple pathways for mineral core formation in mammalian apoferritin. The role of hydrogen peroxide. <i>Biochemistry</i> , <b>2003</b> , 42, 3142-50	3.2	139
281	RNA silencing of the mitochondrial ABCB7 transporter in HeLa cells causes an iron-deficient phenotype with mitochondrial iron overload. <i>Blood</i> , <b>2007</b> , 109, 3552-9	2.2	138
280	Systematic development of small molecules to inhibit specific microscopic steps of A $\beta$ 2 aggregation in Alzheimer $\beta$ disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E200-E208	11.5	134
279	An anticancer drug suppresses the primary nucleation reaction that initiates the production of the toxic A $\beta$ 2 aggregates linked with Alzheimer $\beta$ disease. <i>Science Advances</i> , <b>2016</b> , 2, e1501244	14.3	133
278	Mitochondrial ferritin: a new player in iron metabolism. <i>Blood Cells, Molecules, and Diseases</i> , <b>2002</b> , 29, 376-83	2.1	129
277	Reaction paths of iron oxidation and hydrolysis in horse spleen and recombinant human ferritins. <i>Biochemistry</i> , <b>1998</b> , 37, 9743-50	3.2	129
276	Identification of the EPR-active iron-nitrosyl complexes in mammalian ferritins. <i>Biochemistry</i> , <b>1994</b> , 33, 3679-87	3.2	123
275	Dysregulation of iron homeostasis in the CNS contributes to disease progression in a mouse model of amyotrophic lateral sclerosis. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 610-9	6.6	122
274	Mitochondrial ferritin expression in adult mouse tissues. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2007</b> , 55, 1129-37	3.4	122
273	Human mitochondrial ferritin expressed in HeLa cells incorporates iron and affects cellular iron metabolism. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 22430-7	5.4	120

272	Proximal tubule H-ferritin mediates iron trafficking in acute kidney injury. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 4423-34	15.9	115
271	Evidence that the specificity of iron incorporation into homopolymers of human ferritin L- and H-chains is conferred by the nucleation and ferroxidase centres. <i>Biochemical Journal</i> , <b>1996</b> , 314 ( Pt 1), 139-44	3.8	112
270	Heparin: a potent inhibitor of hepcidin expression in vitro and in vivo. <i>Blood</i> , <b>2011</b> , 117, 997-1004	2.2	109
269	Crystal structure and biochemical properties of the human mitochondrial ferritin and its mutant Ser144Ala. <i>Journal of Molecular Biology</i> , <b>2004</b> , 340, 277-93	6.5	107
268	Ferroxidase kinetics of human liver apoferritin, recombinant H-chain apoferritin, and site-directed mutants. <i>Biochemistry</i> , <b>1993</b> , 32, 9362-9	3.2	107
267	Interaction of the molecular chaperone DNAJB6 with growing amyloid-beta 42 (A $\beta$ 2) aggregates leads to sub-stoichiometric inhibition of amyloid formation. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 31066-76	5.4	106
266	Biofortification for combating hidden hunger for iron. <i>Trends in Plant Science</i> , <b>2012</b> , 17, 47-55	13.1	105
265	Analysis of the biologic functions of H- and L-ferritins in HeLa cells by transfection with siRNAs and cDNAs: evidence for a proliferative role of L-ferritin. <i>Blood</i> , <b>2004</b> , 103, 2377-83	2.2	105
264	Dynamics of oligomer populations formed during the aggregation of Alzheimer's A $\beta$ 2 peptide. <i>Nature Chemistry</i> , <b>2020</b> , 12, 445-451	17.6	103
263	Quantification of the concentration of A $\beta$ 2 propagons during the lag phase by an amyloid chain reaction assay. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 219-25	16.4	102
262	Biology of ferritin in mammals: an update on iron storage, oxidative damage and neurodegeneration. <i>Archives of Toxicology</i> , <b>2014</b> , 88, 1787-802	5.8	101
261	Mitochondrial ferritin. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2004</b> , 36, 1887-9	5.6	101
260	Ferritin as an important player in neurodegeneration. <i>Parkinsonism and Related Disorders</i> , <b>2011</b> , 17, 423-30	3.0	99
259	Ferritin ferroxidase activity: a potent inhibitor of osteogenesis. <i>Journal of Bone and Mineral Research</i> , <b>2010</b> , 25, 164-72	6.3	93
258	Facilitated diffusion of iron(II) and dioxygen substrates into human H-chain ferritin. A fluorescence and absorbance study employing the ferroxidase center substitution Y34W. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17801-11	16.4	92
257	The expression of human mitochondrial ferritin rescues respiratory function in frataxin-deficient yeast. <i>Human Molecular Genetics</i> , <b>2004</b> , 13, 2279-88	5.6	91
256	Heavy chain ferritin activates regulatory T cells by induction of changes in dendritic cells. <i>Blood</i> , <b>2002</b> , 99, 3326-34	2.2	91
255	The X-ray three-dimensional structure of avidin. <i>New Biotechnology</i> , <b>1999</b> , 16, 5-12		90

254	The S/T-Rich Motif in the DNAJB6 Chaperone Delays Polyglutamine Aggregation and the Onset of Disease in a Mouse Model. <i>Molecular Cell</i> , <b>2016</b> , 62, 272-283	17.6	87
253	Aggregation mechanism of an IgG2 and two IgG1 monoclonal antibodies at low pH: from oligomers to larger aggregates. <i>Pharmaceutical Research</i> , <b>2013</b> , 30, 641-54	4.5	85
252	Hepcidin antagonists for potential treatments of disorders with hepcidin excess. <i>Frontiers in Pharmacology</i> , <b>2014</b> , 5, 86	5.6	85
251	Evidence that residues exposed on the three-fold channels have active roles in the mechanism of ferritin iron incorporation. <i>Biochemical Journal</i> , <b>1996</b> , 317 ( Pt 2), 467-73	3.8	83
250	Selective targeting of primary and secondary nucleation pathways in A $\beta$ 2 aggregation using a rational antibody scanning method. <i>Science Advances</i> , <b>2017</b> , 3, e1700488	14.3	81
249	Functional and immunological analysis of recombinant mouse H- and L-ferritins from <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , <b>2000</b> , 19, 212-8	2	79
248	Coexistence of plasmonic and magnetic properties in Au89Fe11 nanoalloys. <i>Nanoscale</i> , <b>2013</b> , 5, 5611-9	7.7	77
247	Origin of the unusual kinetics of iron deposition in human H-chain ferritin. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 3885-93	16.4	77
246	Analysis of Ferritins in Lymphoblastoid Cell Lines and in the Lens of Subjects With Hereditary Hyperferritinemia-Cataract Syndrome. <i>Blood</i> , <b>1998</b> , 91, 4180-4187	2.2	76
245	Defective targeting of hemojuvelin to plasma membrane is a common pathogenetic mechanism in juvenile hemochromatosis. <i>Blood</i> , <b>2007</b> , 109, 4503-10	2.2	75
244	$\mu$ -1,2-Peroxo-bridged di-iron(III) dimer formation in human H-chain ferritin. <i>Biochemical Journal</i> , <b>2002</b> , 364, 57-63	3.8	75
243	Secondary nucleation and elongation occur at different sites on Alzheimer $\beta$ amyloid- $\beta$ aggregates. <i>Science Advances</i> , <b>2019</b> , 5, eaau3112	14.3	74
242	Iron(II) and hydrogen peroxide detoxification by human H-chain ferritin. An EPR spin-trapping study. <i>Biochemistry</i> , <b>2006</b> , 45, 3429-36	3.2	74
241	Chemical-physical changes in cell membrane microdomains of breast cancer cells after omega-3 PUFA incorporation. <i>Cell Biochemistry and Biophysics</i> , <b>2012</b> , 64, 45-59	3.2	71
240	Unique iron binding and oxidation properties of human mitochondrial ferritin: a comparative analysis with Human H-chain ferritin. <i>Journal of Molecular Biology</i> , <b>2005</b> , 347, 543-54	6.5	71
239	Aggregation stability of a monoclonal antibody during downstream processing. <i>Pharmaceutical Research</i> , <b>2011</b> , 28, 1884-94	4.5	70
238	Ferrous ion binding to recombinant human H-chain ferritin. An isothermal titration calorimetry study. <i>Biochemistry</i> , <b>2002</b> , 41, 11184-91	3.2	70
237	Genetic hyperferritinaemia and reticuloendothelial iron overload associated with a three base pair deletion in the coding region of the ferroportin gene (SLC11A3). <i>British Journal of Haematology</i> , <b>2002</b> , 119, 539-46	4.5	68

236	Population balance modeling of antibodies aggregation kinetics. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 7066-75	3.4	67
235	Identification of new mutations of the HFE, hepcidin, and transferrin receptor 2 genes by denaturing HPLC analysis of individuals with biochemical indications of iron overload. <i>Clinical Chemistry</i> , <b>2003</b> , 49, 1981-8	5.5	66
234	Overexpression of the hereditary hemochromatosis protein, HFE, in HeLa cells induces and iron-deficient phenotype. <i>FEBS Letters</i> , <b>1999</b> , 460, 149-52	3.8	65
233	Oxidative stress and cell death in cells expressing L-ferritin variants causing neuroferritinopathy. <i>Neurobiology of Disease</i> , <b>2010</b> , 37, 77-85	7.5	64
232	Is hydrogen peroxide produced during iron(II) oxidation in mammalian apoferritins?. <i>Biochemistry</i> , <b>2001</b> , 40, 10832-8	3.2	64
231	Ferritin prevents calcification and osteoblastic differentiation of vascular smooth muscle cells. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2009</b> , 20, 1254-63	12.7	63
230	Transferrin receptor 2 and HFE regulate furin expression via mitogen-activated protein kinase/extracellular signal-regulated kinase (MAPK/Erk) signaling. Implications for transferrin-dependent hepcidin regulation. <i>Haematologica</i> , <b>2010</b> , 95, 1832-40	6.6	63
229	Structural Ensembles of Membrane-bound $\beta$ Synuclein Reveal the Molecular Determinants of Synaptic Vesicle Affinity. <i>Scientific Reports</i> , <b>2016</b> , 6, 27125	4.9	62
228	Microfluidic Diffusion Analysis of the Sizes and Interactions of Proteins under Native Solution Conditions. <i>ACS Nano</i> , <b>2016</b> , 10, 333-41	16.7	61
227	Neuroferritinopathy: a neurodegenerative disorder associated with L-ferritin mutation. <i>Best Practice and Research in Clinical Haematology</i> , <b>2005</b> , 18, 265-76	4.2	61
226	Molecular diffusion into ferritin: pathways, temperature dependence, incubation time, and concentration effects. <i>Biophysical Journal</i> , <b>2000</b> , 78, 2049-59	2.9	61
225	Functional roles of the ferritin receptors of human liver, hepatoma, lymphoid and erythroid cells. <i>Journal of Inorganic Biochemistry</i> , <b>1992</b> , 47, 219-27	4.2	61
224	Relative contribution of iron genes, dysmetabolism and hepatitis C virus (HCV) in the pathogenesis of altered iron regulation in HCV chronic hepatitis. <i>Haematologica</i> , <b>2007</b> , 92, 1037-42	6.6	60
223	The importance of eukaryotic ferritins in iron handling and cytoprotection. <i>Biochemical Journal</i> , <b>2015</b> , 472, 1-15	3.8	58
222	On the role of salt type and concentration on the stability behavior of a monoclonal antibody solution. <i>Biophysical Chemistry</i> , <b>2012</b> , 168-169, 19-27	3.5	58
221	Mitochondrial ferritin in the substantia nigra in restless legs syndrome. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2009</b> , 68, 1193-9	3.1	55
220	Structural description of the active sites of mouse L-chain ferritin at 1.2 Å resolution. <i>Journal of Biological Inorganic Chemistry</i> , <b>2003</b> , 8, 105-11	3.7	55
219	Hybrid iron oxide-copolymer micelles and vesicles as contrast agents for MRI: impact of the nanostructure on the relaxometric properties. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 5317-5328	7.3	54

218	Role of iron and ferritin in TNFalpha-induced apoptosis in HeLa cells. <i>FEBS Letters</i> , <b>2003</b> , 537, 187-92	3.8	54
217	Glycol-split nonanticoagulant heparins are inhibitors of hepcidin expression in vitro and in vivo. <i>Blood</i> , <b>2014</b> , 123, 1564-73	2.2	53
216	Macrophage and epithelial cell H-ferritin expression regulates renal inflammation. <i>Kidney International</i> , <b>2015</b> , 88, 95-108	9.9	51
215	A multiscale view of therapeutic protein aggregation: a colloid science perspective. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 367-78	5.6	51
214	The effects of frataxin silencing in HeLa cells are rescued by the expression of human mitochondrial ferritin. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2008</b> , 1782, 90-8	6.9	51
213	Structure and morphology of HDPE-g-MA/organoclay nanocomposites: Effects of the preparation procedures. <i>European Polymer Journal</i> , <b>2008</b> , 44, 987-1002	5.2	51
212	Ordered Stacking of Regioregular Head-to-Tail Polyalkylthiophenes: Insights from the Crystal Structure of Form I? Poly(3-n-butylthiophene). <i>Chemistry of Materials</i> , <b>2009</b> , 21, 78-87	9.6	48
211	Identification of new mutations of hepcidin and hemojuvelin in patients with HFE C282Y allele. <i>Blood Cells, Molecules, and Diseases</i> , <b>2004</b> , 33, 338-43	2.1	48
210	Production of a soluble and functional recombinant streptavidin in Escherichia coli. <i>Protein Expression and Purification</i> , <b>1998</b> , 14, 192-6	2	48
209	Relationship between TNF-alpha and iron metabolism in differentiating human monocytic THP-1 cells. <i>British Journal of Haematology</i> , <b>2000</b> , 110, 978-84	4.5	47
208	Expression of iron homeostasis proteins in the spinal cord in experimental autoimmune encephalomyelitis and their implications for iron accumulation. <i>Neurobiology of Disease</i> , <b>2015</b> , 81, 93-107	7.5	46
207	Inhibition of $\beta$ Synuclein Fibril Elongation by Hsp70 Is Governed by a Kinetic Binding Competition between $\beta$ Synuclein Species. <i>Biochemistry</i> , <b>2017</b> , 56, 1177-1180	3.2	45
206	Latent analysis of unmodified biomolecules and their complexes in solution with attomole detection sensitivity. <i>Nature Chemistry</i> , <b>2015</b> , 7, 802-9	17.6	44
205	Mutant ferritin L-chains that cause neurodegeneration act in a dominant-negative manner to reduce ferritin iron incorporation. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 11948-57	5.4	43
204	Effects of modifications near the 2-, 3- and 4-fold symmetry axes on human ferritin renaturation. <i>Biochemical Journal</i> , <b>1997</b> , 322 ( Pt 2), 461-8	3.8	43
203	Phage display and kinetic selection of antibodies that specifically inhibit amyloid self-replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 6444-6449	11.5	41
202	ELISA reveals a difference in the structure of substantia nigra ferritin in Parkinson's disease and incidental Lewy body compared to control. <i>Parkinsonism and Related Disorders</i> , <b>2007</b> , 13, 214-8	3.6	41
201	Transient overexpression of human H- and L-ferritin chains in COS cells. <i>Biochemical Journal</i> , <b>1998</b> , 330 ( Pt 1), 315-20	3.8	41



200	Role of Zn <sup>2+</sup> Substitution on the Magnetic, Hyperthermic, and Relaxometric Properties of Cobalt Ferrite Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 6148-6157	3.8	41
199	Design of water-based ferrofluids as contrast agents for magnetic resonance imaging. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 357, 50-5	9.3	39
198	Defining metal ion inhibitor interactions with recombinant human H- and L-chain ferritins and site-directed variants: an isothermal titration calorimetry study. <i>Journal of Biological Inorganic Chemistry</i> , <b>2003</b> , 8, 489-97	3.7	39
197	Tyrosyl radical formation during the oxidative deposition of iron in human apoferritin. <i>Biochemistry</i> , <b>1995</b> , 34, 7847-53	3.2	39
196	End-to-end self-assembly of RADA 16-I nanofibrils in aqueous solutions. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1617-26	2.9	38
195	Pantothenate kinase-2 (Pank2) silencing causes cell growth reduction, cell-specific ferroportin upregulation and iron deregulation. <i>Neurobiology of Disease</i> , <b>2010</b> , 39, 204-10	7.5	38
194	Iron release from ferritin by flavin nucleotides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2013</b> , 1830, 4669-74	4	37
193	The putative "nucleation site" in human H-chain ferritin is not required for mineralization of the iron core. <i>Biochemistry</i> , <b>2004</b> , 43, 4332-7	3.2	37
192	Dynamics of protein aggregation and oligomer formation governed by secondary nucleation. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 054901	3.9	36
191	Oversulfated heparins with low anticoagulant activity are strong and fast inhibitors of hepcidin expression in vitro and in vivo. <i>Biochemical Pharmacology</i> , <b>2014</b> , 92, 467-75	6	36
190	Characterization of the L-ferritin variant 460InsA responsible of a hereditary ferritinopathy disorder. <i>Neurobiology of Disease</i> , <b>2006</b> , 23, 644-52	7.5	36
189	Iron Oxidation and Core Formation in Recombinant Heteropolymeric Human Ferritins. <i>Biochemistry</i> , <b>2017</b> , 56, 3900-3912	3.2	35
188	On the use of superparamagnetic hydroxyapatite nanoparticles as an agent for magnetic and nuclear in vivo imaging. <i>Acta Biomaterialia</i> , <b>2018</b> , 73, 458-469	10.8	35
187	Kinetic analysis of the multistep aggregation mechanism of monoclonal antibodies. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 10595-606	3.4	35
186	Synthesis, Characterization, and Crystalline Structure of Syndiotactic 1,2-Polypentadiene: The Trans Polymer. <i>Macromolecules</i> , <b>2005</b> , 38, 8345-8352	5.5	35
185	Hadron Therapy, Magnetic Nanoparticles and Hyperthermia: A Promising Combined Tool for Pancreatic Cancer Treatment. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	35
184	Mechanistic Origin of the Combined Effect of Surfaces and Mechanical Agitation on Amyloid Formation. <i>ACS Nano</i> , <b>2017</b> , 11, 11358-11367	16.7	34
183	Density-gradient-free microfluidic centrifugation for analytical and preparative separation of nanoparticles. <i>Nano Letters</i> , <b>2014</b> , 14, 2365-71	11.5	34



182	Biochemical characterization and crystal structure of a recombinant hen avidin and its acidic mutant expressed in <i>Escherichia coli</i> . <i>FEBS Journal</i> , <b>1998</b> , 256, 453-60		34
181	Microelectronic DNA chip for hereditary hyperferritinemia cataract syndrome, a model for large-scale analysis of disorders of iron metabolism. <i>Human Mutation</i> , <b>2006</b> , 27, 201-8	4.7	34
180	Ferritin Light Chain Confers Protection Against Sepsis-Induced Inflammation and Organ Injury. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 131	8.4	33
179	Mice lacking mitochondrial ferritin are more sensitive to doxorubicin-mediated cardiotoxicity. <i>Journal of Molecular Medicine</i> , <b>2014</b> , 92, 859-69	5.5	33
178	Scalable Production and Isolation of Extracellular Vesicles: Available Sources and Lessons from Current Industrial Bioprocesses. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800528	5.6	32
177	Microfluidics for Protein Biophysics. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 565-580	6.5	32
176	New TFR2 mutations in young Italian patients with hemochromatosis. <i>Haematologica</i> , <b>2008</b> , 93, 309-10	6.6	32
175	Machine Learning for Biologics: Opportunities for Protein Engineering, Developability, and Formulation. <i>Trends in Pharmacological Sciences</i> , <b>2021</b> , 42, 151-165	13.2	31
174	Superparamagnetic iron oxide nanoparticles functionalized by peptide nucleic acids. <i>RSC Advances</i> , <b>2017</b> , 7, 15500-15512	3.7	30
173	Dynamics of Synthetic Membraneless Organelles in Microfluidic Droplets. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14489-14494	16.4	30
172	Scanning mutations of the 5'UTR regulatory sequence of L-ferritin by denaturing high-performance liquid chromatography: identification of new mutations. <i>British Journal of Haematology</i> , <b>2003</b> , 121, 173-9	4.5	30
171	Vanadyl(IV) binding to mammalian ferritins. An EPR study aided by site-directed mutagenesis. <i>Journal of Inorganic Biochemistry</i> , <b>2000</b> , 80, 107-13	4.2	30
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