Paolo Arosio

List of Publications by Year
in descending order

315 papers	22,478 citations	9786 73 h-index	11607 135 g-index
326 all docs	326 docs citations	326 times ranked	20790 citing authors

#	Article	IF	Citations
1	The ferritins: molecular properties, iron storage function and cellular regulation. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1275, 161-203.	1.0	2,273
2	Ferritins: A family of molecules for iron storage, antioxidation and more. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 589-599.	2.4	718
3	Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. Chemical Society Reviews, 2017, 46, 4661-4708.	38.1	670
4	On the lag phase in amyloid fibril formation. Physical Chemistry Chemical Physics, 2015, 17, 7606-7618.	2.8	590
5	Molecular mechanisms of protein aggregation from global fitting of kinetic models. Nature Protocols, 2016, 11, 252-272.	12.0	546
6	Ferritin, iron homeostasis, and oxidative damage1,2 1Guest Editor: Mario Comporti 2This article is part of a series of reviews on â€œIron and Cellular Redox Status.â€•The full list of papers may be found on the homepage of the journal.. Free Radical Biology and Medicine, 2002, 33, 457-463.	2.9	452
7	The role of iron and copper molecules in the neuronal vulnerability of locus coeruleus and substantia nigra during aging. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9843-9848.	7.1	428
8	A molecular chaperone breaks the catalytic cycle that generates toxic AÎ² oligomers. Nature Structural and Molecular Biology, 2015, 22, 207-213.	8.2	373
9	A Human Mitochondrial Ferritin Encoded by an Intronless Gene. Journal of Biological Chemistry, 2001, 276, 24437-24440.	3.4	344
10	Structure, function, and evolution of ferritins. Journal of Inorganic Biochemistry, 1992, 47, 161-174.	3.5	306
11	A Quantitative Analysis of Isoferritins in Select Regions of Aged, Parkinsonian, and Alzheimer's Diseased Brains. Journal of Neurochemistry, 1995, 65, 717-724.	3.9	290
12	Iron Homeostasis in Health and Disease. International Journal of Molecular Sciences, 2016, 17, 130.	4.1	274
13	Ferritin, cellular iron storage and regulation. IUBMB Life, 2017, 69, 414-422.	3.4	250
14	Cytosolic and mitochondrial ferritins in the regulation of cellular iron homeostasis and oxidative damage. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 783-792.	2.4	248
15	Water-Dispersible Sugar-Coated Iron Oxide Nanoparticles. An Evaluation of their Relaxometric and Magnetic Hyperthermia Properties. Journal of the American Chemical Society, 2011, 133, 10459-10472.	13.7	236
16	Early Embryonic Lethality of H Ferritin Gene Deletion in Mice. Journal of Biological Chemistry, 2000, 275, 3021-3024.	3.4	232
17	Ferritin functions as a proinflammatory cytokine via iron-independent protein kinase C zeta/nuclear factor kappaB-regulated signaling in rat hepatic stellate cells. Hepatology, 2009, 49, 887-900.	7.3	225
18	Dynamics of oligomer populations formed during the aggregation of Alzheimerâ€™s AÎ²42 peptide. Nature Chemistry, 2020, 12, 445-451.	13.6	223

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19	Overexpression of Wild Type and Mutated Human Ferritin H-chain in HeLa Cells. Journal of Biological Chemistry, 2000, 275, 25122-25129.	3.4	222
20	New functions for an iron storage protein: The role of ferritin in immunity and autoimmunity. Journal of Autoimmunity, 2008, 30, 84-89.	6.5	222
21	Kinetic analysis reveals the diversity of microscopic mechanisms through which molecular chaperones suppress amyloid formation. Nature Communications, 2016, 7, 10948.	12.8	219
22	The Role of Stable Î±-Synuclein Oligomers in the Molecular Events Underlying Amyloid Formation. Journal of the American Chemical Society, 2014, 136, 3859-3868.	13.7	218
23	Chemical kinetics for drug discovery to combat protein aggregation diseases. Trends in Pharmacological Sciences, 2014, 35, 127-135.	8.7	191
24	Reconstitution of manganese oxide cores in horse spleen and recombinant ferritins. Journal of Inorganic Biochemistry, 1995, 58, 59-68.	3.5	187
25	Mitochondrial ferritin expression in erythroid cells from patients with sideroblastic anemia. Blood, 2003, 101, 1996-2000.	1.4	181
26	An anticancer drug suppresses the primary nucleation reaction that initiates the production of the toxic AÎ²42 aggregates linked with Alzheimerâ€™s disease. Science Advances, 2016, 2, e1501244.	10.3	180
27	Systematic development of small molecules to inhibit specific microscopic steps of AÎ²42 aggregation in Alzheimerâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E200-E208.	7.1	180
28	The Role of the L-Chain in Ferritin Iron Incorporation. Journal of Molecular Biology, 1994, 238, 649-654.	4.2	170
29	Mitochondrial Ferritin: A New Player in Iron Metabolism. Blood Cells, Molecules, and Diseases, 2002, 29, 376-383.	1.4	165
30	Proximal tubule H-ferritin mediates iron trafficking in acute kidney injury. Journal of Clinical Investigation, 2013, 123, 4423-4434.	8.2	161
31	Interaction of the Molecular Chaperone DNAJB6 with Growing Amyloid-beta 42 (AÎ²42) Aggregates Leads to Sub-stoichiometric Inhibition of Amyloid Formation. Journal of Biological Chemistry, 2014, 289, 31066-31076.	3.4	158
32	RNA silencing of the mitochondrial ABCB7 transporter in HeLa cells causes an iron-deficient phenotype with mitochondrial iron overload. Blood, 2007, 109, 3552-3559.	1.4	156
33	Multiple Pathways for Mineral Core Formation in Mammalian Apoferritin. The Role of Hydrogen Peroxideâ€. Biochemistry, 2003, 42, 3142-3150.	2.5	151
34	Mitochondrial Ferritin Expression in Adult Mouse Tissues. Journal of Histochemistry and Cytochemistry, 2007, 55, 1129-1137.	2.5	147
35	Dysregulation of Iron Homeostasis in the CNS Contributes to Disease Progression in a Mouse Model of Amyotrophic Lateral Sclerosis. Journal of Neuroscience, 2009, 29, 610-619.	3.6	147
36	Reaction Paths of Iron Oxidation and Hydrolysis in Horse Spleen and Recombinant Human Ferritinsâ€. Biochemistry, 1998, 37, 9743-9750.	2.5	142

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37	The S/T-Rich Motif in the DNAJB6 Chaperone Delays Polyglutamine Aggregation and the Onset of Disease in a Mouse Model. Molecular Cell, 2016, 62, 272-283.	9.7	140
38	Human Mitochondrial Ferritin Expressed in HeLa Cells Incorporates Iron and Affects Cellular Iron Metabolism. Journal of Biological Chemistry, 2002, 277, 22430-22437.	3.4	139
39	Biology of ferritin in mammals: an update on iron storage, oxidative damage and neurodegeneration. Archives of Toxicology, 2014, 88, 1787-1802.	4.2	135
40	Biofortification for combating â€˜hidden hungerâ€™ for iron. Trends in Plant Science, 2012, 17, 47-55.	8.8	131
41	Identification of the EPR-Active Iron-Nitrosyl Complexes in Mammalian Ferritins. Biochemistry, 1994, 33, 3679-3687.	2.5	127
42	Heparin: a potent inhibitor of hepcidin expression in vitro and in vivo. Blood, 2011, 117, 997-1004.	1.4	127
43	Secondary nucleation and elongation occur at different sites on Alzheimerâ€™s amyloid-Î² aggregates. Science Advances, 2019, 5, eaau3112.	10.3	127
44	Evidence that the specificity of iron incorporation into homopolymers of human ferritin L- and H-chains is conferred by the nucleation and ferroxidase centres. Biochemical Journal, 1996, 314, 139-144.	3.7	125
45	Quantification of the Concentration of AÎ²42 Propagons during the Lag Phase by an Amyloid Chain Reaction Assay. Journal of the American Chemical Society, 2014, 136, 219-225.	13.7	120
46	Mitochondrial ferritin. International Journal of Biochemistry and Cell Biology, 2004, 36, 1887-1889.	2.8	119
47	Selective targeting of primary and secondary nucleation pathways in AÎ²42 aggregation using a rational antibody scanning method. Science Advances, 2017, 3, e1700488.	10.3	116
48	Ferroxidase kinetics of human liver apoferritin, recombinant H-chain apoferritin, and site-directed mutants. Biochemistry, 1993, 32, 9362-9369.	2.5	114
49	The X-ray three-dimensional structure of avidin. New Biotechnology, 1999, 16, 5-12.	2.7	114
50	Ferritin ferroxidase activity: A potent inhibitor of osteogenesis. Journal of Bone and Mineral Research, 2010, 25, 164-172.	2.8	114
51	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. Blood, 2004, 103, 2377-2383.	1.4	112
52	Ferritin as an important player in neurodegeneration. Parkinsonism and Related Disorders, 2011, 17, 423-430.	2.2	112
53	Crystal Structure and Biochemical Properties of the Human Mitochondrial Ferritin and its Mutant Ser144Ala. Journal of Molecular Biology, 2004, 340, 277-293.	4.2	111
54	Facilitated Diffusion of Iron(II) and Dioxygen Substrates into Human H-Chain Ferritin. A Fluorescence and Absorbance Study Employing the Ferroxidase Center Substitution Y34W. Journal of the American Chemical Society, 2008, 130, 17801-17811.	13.7	107

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55	Heavy chain ferritin activates regulatory T cells by induction of changes in dendritic cells. Blood, 2002, 99, 3326-3334.	1.4	106
56	Microfluidic Diffusion Analysis of the Sizes and Interactions of Proteins under Native Solution Conditions. ACS Nano, 2016, 10, 333-341.	14.6	105
57	Aggregation Mechanism of an IgG2 and two IgG1 Monoclonal Antibodies at low pH: From Oligomers to Larger Aggregates. Pharmaceutical Research, 2013, 30, 641-654.	3.5	102
58	The expression of human mitochondrial ferritin rescues respiratory function infrataxin-deficient yeast. Human Molecular Genetics, 2004, 13, 2279-2288.	2.9	100
59	Hepcidin antagonists for potential treatments of disorders with hepcidin excess. Frontiers in Pharmacology, 2014, 5, 86.	3.5	100
60	Functional and Immunological Analysis of Recombinant Mouse H- and L-Ferritins from Escherichia coli. Protein Expression and Purification, 2000, 19, 212-218.	1.3	99
61	Machine Learning for Biologics: Opportunities for Protein Engineering, Developability, and Formulation. Trends in Pharmacological Sciences, 2021, 42, 151-165.	8.7	94
62	Evidence that residues exposed on the three-fold channels have active roles in the mechanism of ferritin iron incorporation. Biochemical Journal, 1996, 317, 467-473.	3.7	92
63	Coexistence of plasmonic and magnetic properties in Au89Fe11 nanoalloys. Nanoscale, 2013, 5, 5611.	5.6	92
64	Aggregation Stability of a Monoclonal Antibody During Downstream Processing. Pharmaceutical Research, 2011, 28, 1884-1894.	3.5	90
65	Iron(II) and Hydrogen Peroxide Detoxification by Human H-Chain Ferritin. An EPR Spin-Trapping Study. Biochemistry, 2006, 45, 3429-3436.	2.5	87
66	Analysis of Ferritins in Lymphoblastoid Cell Lines and in the Lens of Subjects With Hereditary Hyperferritinemia-Cataract Syndrome. Blood, 1998, 91, 4180-4187.	1.4	85
67	Population Balance Modeling of Antibodies Aggregation Kinetics. Journal of Physical Chemistry B, 2012, 116, 7066-7075.	2.6	84
68	Structural Ensembles of Membrane-bound Î±-Synuclein Reveal the Molecular Determinants of Synaptic Vesicle Affinity. Scientific Reports, 2016, 6, 27125.	3.3	83
69	Origin of the Unusual Kinetics of Iron Deposition in Human H-Chain Ferritin. Journal of the American Chemical Society, 2005, 127, 3885-3893.	13.7	81
70	Î¼-1,2-Peroxobridged di-iron(III) dimer formation in human H-chain ferritin. Biochemical Journal, 2002, 364, 57-63.	3.7	80
71	Genetic hyperferritinaemia and reticuloendothelial iron overload associated with a three base pair deletion in the coding region of the ferroportin gene (SLC11A3). British Journal of Haematology, 2002, 119, 539-546.	2.5	80
72	Scalable Production and Isolation of Extracellular Vesicles: Available Sources and Lessons from Current Industrial Bioprocesses. Biotechnology Journal, 2019, 14, e1800528.	3.5	80

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73	Unique Iron Binding and Oxidation Properties of Human Mitochondrial Ferritin: A Comparative Analysis with Human H-chain Ferritin. Journal of Molecular Biology, 2005, 347, 543-554.	4.2	79
74	Ferritin Prevents Calcification and Osteoblastic Differentiation of Vascular Smooth Muscle Cells. Journal of the American Society of Nephrology: JASN, 2009, 20, 1254-1263.	6.1	79
75	The importance of eukaryotic ferritins in iron handling and cytoprotection. Biochemical Journal, 2015, 472, 1-15.	3.7	79
76	Defective targeting of hemojuvelin to plasma membrane is a common pathogenetic mechanism in juvenile hemochromatosis. Blood, 2007, 109, 4503-4510.	1.4	78
77	Chemicalâ€“Physical Changes in Cell Membrane Microdomains of Breast Cancer Cells After Omega-3 PUFA Incorporation. Cell Biochemistry and Biophysics, 2012, 64, 45-59.	1.8	77
78	Macrophage and epithelial cell H-ferritin expression regulates renal inflammation. Kidney International, 2015, 88, 95-108.	5.2	77
79	Ferrous Ion Binding to Recombinant Human H-Chain Ferritin. An Isothermal Titration Calorimetry Study. Biochemistry, 2002, 41, 11184-11191.	2.5	73
80	Neuroferritinopathy: a neurodegenerative disorder associated with L-ferritin mutation. Best Practice and Research in Clinical Haematology, 2005, 18, 265-276.	1.7	73
81	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. Haematologica, 2010, 95, 1832-1840.	3.5	73
82	On the role of salt type and concentration on the stability behavior of a monoclonal antibody solution. Biophysical Chemistry, 2012, 168-169, 19-27.	2.8	73
83	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. Clinical Chemistry, 2003, 49, 1981-1988.	3.2	72
84	Oxidative stress and cell death in cells expressing L-ferritin variants causing neuroferritinopathy. Neurobiology of Disease, 2010, 37, 77-85.	4.4	72
85	Overexpression of the hereditary hemochromatosis protein, HFE, in HeLa cells induces an iron-deficient phenotype. FEBS Letters, 1999, 460, 149-152.	2.8	71
86	NCOA4-mediated ferritinophagy promotes ferroptosis induced by erastin, but not by RSL3 in HeLa cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118913.	4.1	69
87	Is Hydrogen Peroxide Produced during Iron(II) Oxidation in Mammalian Apoferritins?. Biochemistry, 2001, 40, 10832-10838.	2.5	68
88	Mitochondrial Ferritin in the Substantia Nigra in Restless Legs Syndrome. Journal of Neuropathology and Experimental Neurology, 2009, 68, 1193-1199.	1.7	68
89	Role of iron and ferritin in TNFÎ±-induced apoptosis in HeLa cells. FEBS Letters, 2003, 537, 187-192.	2.8	66
90	Relative contribution of iron genes, dysmetabolism and hepatitis C virus (HCV) in the pathogenesis of altered iron regulation in HCV chronic hepatitis. Haematologica, 2007, 92, 1037-1042.	3.5	66

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91	A multiscale view of therapeutic protein aggregation: A colloid science perspective. Biotechnology Journal, 2015, 10, 367-378.	3.5	65
92	Role of Zn²⁺ Substitution on the Magnetic, Hyperthermic, and Relaxometric Properties of Cobalt Ferrite Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 6148-6157.	3.1	65
93	Functional roles of the ferritin receptors of human liver, hepatoma, lymphoid and erythroid cells. Journal of Inorganic Biochemistry, 1992, 47, 219-227.	3.5	64
94	Ferritin Light Chain Confers Protection Against Sepsis-Induced Inflammation and Organ Injury. Frontiers in Immunology, 2019, 10, 131.	4.8	64
95	Molecular Diffusion into Ferritin: Pathways, Temperature Dependence, Incubation Time, and Concentration Effects. Biophysical Journal, 2000, 78, 2049-2059.	0.5	63
96	Structural description of the active sites of mouse L-chain ferritin at 1.2ÂÃ... resolution. Journal of Biological Inorganic Chemistry, 2003, 8, 105-111.	2.6	63
97	Glycol-split nonanticoagulant heparins are inhibitors of hepcidin expression in vitro and in vivo. Blood, 2014, 123, 1564-1573.	1.4	62
98	Expression of iron homeostasis proteins in the spinal cord in experimental autoimmune encephalomyelitis and their implications for iron accumulation. Neurobiology of Disease, 2015, 81, 93-107.	4.4	62
99	Phage display and kinetic selection of antibodies that specifically inhibit amyloid self-replication. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6444-6449.	7.1	60
100	The effects of frataxin silencing in HeLa cells are rescued by the expression of human mitochondrial ferritin. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2008, 1782, 90-98.	3.8	56
101	Hybrid iron oxide-copolymer micelles and vesicles as contrast agents for MRI: impact of the nanostructure on the relaxometric properties. Journal of Materials Chemistry B, 2013, 1, 5317.	5.8	56
102	Latent analysis of unmodified biomolecules and their complexes in solution with attomole detection sensitivity. Nature Chemistry, 2015, 7, 802-809.	13.6	56
103	Hadron Therapy, Magnetic Nanoparticles and Hyperthermia: A Promising Combined Tool for Pancreatic Cancer Treatment. Nanomaterials, 2020, 10, 1919.	4.1	55
104	Identification of new mutations of hepcidin and hemojuvelin in patients with HFE C282Y allele. Blood Cells, Molecules, and Diseases, 2004, 33, 338-343.	1.4	54
105	Structure and morphology of HDPE-g-MA/organoclay nanocomposites: Effects of the preparation procedures. European Polymer Journal, 2008, 44, 987-1002.	5.4	54
106	Mechanistic Origin of the Combined Effect of Surfaces and Mechanical Agitation on Amyloid Formation. ACS Nano, 2017, 11, 11358-11367.	14.6	53
107	Expression and characterization of the ferritin binding domain of Nuclear Receptor Coactivator-4 (NCOA4). Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2710-2716.	2.4	53
108	Dynamics of Synthetic Membraneless Organelles in Microfluidic Droplets. Angewandte Chemie - International Edition, 2019, 58, 14489-14494.	13.8	53

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109	Relationship between TNF-Î± and iron metabolism in differentiating human monocytic THP-1 cells. British Journal of Haematology, 2000, 110, 978-984.	2.5	52
110	Conserved S/T Residues of the Human Chaperone DNAJB6 Are Required for Effective Inhibition of AÎ²42 Amyloid Fibril Formation. Biochemistry, 2018, 57, 4891-4902.	2.5	52
111	ELISA reveals a difference in the structure of substantia nigra ferritin in Parkinson's disease and incidental Lewy body compared to control. Parkinsonism and Related Disorders, 2007, 13, 214-218.	2.2	51
112	Multifunctional Protein Materials and Microreactors using Low Complexity Domains as Molecular Adhesives. ACS Nano, 2018, 12, 9991-9999.	14.6	51
113	Production of a Soluble and Functional Recombinant Streptavidin inEscherichia coli. Protein Expression and Purification, 1998, 14, 192-196.	1.3	50
114	Ordered Stacking of Regioregular Head-to-Tail Polyalkylthiophenes: Insights from the Crystal Structure of Form Iâ€² Poly(3-n-butylthiophene). Chemistry of Materials, 2009, 21, 78-87.	6.7	50
115	Pat1 promotes processing body assembly by enhancing the phase separation of the DEAD-box ATPase Dhh1 and RNA. ELife, 2019, 8, .	6.0	50
116	Effects of modifications near the 2-, 3- and 4-fold symmetry axes on human ferritin renaturation. Biochemical Journal, 1997, 322, 461-468.	3.7	49
117	On the use of superparamagnetic hydroxyapatite nanoparticles as an agent for magnetic and nuclear in vivo imaging. Acta Biomaterialia, 2018, 73, 458-469.	8.3	49
118	Microfluidics for Protein Biophysics. Journal of Molecular Biology, 2018, 430, 565-580.	4.2	49
119	Thermodynamic and kinetic design principles for amyloid-aggregation inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24251-24257.	7.1	49
120	Mutant Ferritin L-chains That Cause Neurodegeneration Act in a Dominant-negative Manner to Reduce Ferritin Iron Incorporation. Journal of Biological Chemistry, 2010, 285, 11948-11957.	3.4	48
121	End-to-End Self-Assembly of RADA 16-I Nanofibrils in Aqueous Solutions. Biophysical Journal, 2012, 102, 1617-1626.	0.5	48
122	Iron Oxidation and Core Formation in Recombinant Heteropolymeric Human Ferritins. Biochemistry, 2017, 56, 3900-3912.	2.5	48
123	Design of water-based ferrofluids as contrast agents for magnetic resonance imaging. Journal of Colloid and Interface Science, 2011, 357, 50-55.	9.4	47
124	Inhibition of Î±-Synuclein Fibril Elongation by Hsp70 Is Governed by a Kinetic Binding Competition between Î±-Synuclein Species. Biochemistry, 2017, 56, 1177-1180.	2.5	47
125	The role of surfaces on amyloid formation. Biophysical Chemistry, 2021, 270, 106533.	2.8	46
126	Nanoalgosomes: Introducing extracellular vesicles produced by microalgae. Journal of Extracellular Vesicles, 2021, 10, e12081.	12.2	45

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127	Tyrosyl radical formation during the oxidative deposition of iron in human apoferritin. Biochemistry, 1995, 34, 7847-7853.	2.5	44
128	Defining metal ion inhibitor interactions with recombinant human H- and L-chain ferritins and site-directed variants: an isothermal titration calorimetry study. Journal of Biological Inorganic Chemistry, 2003, 8, 489-497.	2.6	44
129	Mice lacking mitochondrial ferritin are more sensitive to doxorubicin-mediated cardiotoxicity. Journal of Molecular Medicine, 2014, 92, 859-869.	3.9	44
130	Transient overexpression of human H- and L-ferritin chains in COS cells. Biochemical Journal, 1998, 330, 315-320.	3.7	43
131	Kinetic Analysis of the Multistep Aggregation Mechanism of Monoclonal Antibodies. Journal of Physical Chemistry B, 2014, 118, 10595-10606.	2.6	43
132	Density-Gradient-Free Microfluidic Centrifugation for Analytical and Preparative Separation of Nanoparticles. Nano Letters, 2014, 14, 2365-2371.	9.1	43
133	Superparamagnetic iron oxide nanoparticles functionalized by peptide nucleic acids. RSC Advances, 2017, 7, 15500-15512.	3.6	43
134	Pantothenate kinase-2 (Pank2) silencing causes cell growth reduction, cell-specific ferroportin upregulation and iron deregulation. Neurobiology of Disease, 2010, 39, 204-210.	4.4	42
135	Dynamics of protein aggregation and oligomer formation governed by secondary nucleation. Journal of Chemical Physics, 2015, 143, 054901.	3.0	41
136	Iron release from ferritin by flavin nucleotides. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4669-4674.	2.4	40
137	The Putative â€œNucleation Siteâ€•in Human H-Chain Ferritin Is Not Required for Mineralization of the Iron Core. Biochemistry, 2004, 43, 4332-4337.	2.5	39
138	Synthesis, Characterization, and Crystalline Structure of Syndiotactic 1,2-Polypentadiene:Â The Trans Polymer. Macromolecules, 2005, 38, 8345-8352.	4.8	38
139	Microelectronic DNA chip for hereditary hyperferritinemia cataract syndrome, a model for large-scale analysis of disorders of iron metabolism. Human Mutation, 2006, 27, 201-208.	2.5	38
140	Oversulfated heparins with low anticoagulant activity are strong and fast inhibitors of hepcidin expression in vitro and in vivo. Biochemical Pharmacology, 2014, 92, 467-475.	4.4	38
141	Microfluidic Shrinking Droplet Concentrator for Analyte Detection and Phase Separation of Protein Solutions. Analytical Chemistry, 2020, 92, 5803-5812.	6.5	38
142	Acceleration of an Enzymatic Reaction in Liquid Phase Separated Compartments Based on Intrinsically Disordered Protein Domains. ChemSystemsChem, 2020, 2, e2000001.	2.6	38
143	Characterization of the l-ferritin variant 460InsA responsible of a hereditary ferritinopathy disorder. Neurobiology of Disease, 2006, 23, 644-652.	4.4	37
144	International collaborative study to evaluate a recombinant L ferritin preparation as an International Standard. Clinical Chemistry, 1997, 43, 1582-1587.	3.2	36

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145	Biochemical characterization and crystal structure of a recombinant hen avidin and its acidic mutant expressed in Escherichia coli. FEBS Journal, 1998, 256, 453-460.	0.2	36
146	Microfluidic Approaches for the Characterization of Therapeutic Proteins. Journal of Pharmaceutical Sciences, 2018, 107, 1228-1236.	3.3	36
147	Cell Membraneâ€Coated Magnetic Nanocubes with a Homotypic Targeting Ability Increase Intracellular Temperature due to ROS Scavenging and Act as a Versatile Theranostic System for Glioblastoma Multiforme. Advanced Healthcare Materials, 2019, 8, e1900612.	7.6	36
148	Biodegradable zwitterionic nanoparticles with tunable UCST-type phase separation under physiological conditions. Nanoscale, 2019, 11, 16582-16591.	5.6	36
149	New TFR2 mutations in young Italian patients with hemochromatosis. Haematologica, 2008, 93, 309-310.	3.5	35
150	Inhibition of heme synthesis alters Amyloid Precursor Protein processing. Journal of Neural Transmission, 2009, 116, 79-88.	2.8	35
151	Iron Acquisition in Bacillus cereus: The Roles of IlsA and Bacillibactin in Exogenous Ferritin Iron Mobilization. PLoS Pathogens, 2014, 10, e1003935.	4.7	35
152	Dynamic arrest and aging of biomolecular condensates are modulated by low-complexity domains, RNA and biochemical activity. Nature Communications, 2022, 13, .	12.8	35
153	Vanadyl(IV) binding to mammalian ferritins. An EPR study aided by site-directed mutagenesis. Journal of Inorganic Biochemistry, 2000, 80, 107-113.	3.5	34
154	Effect of polyol sugars on the stabilization of monoclonal antibodies. Biophysical Chemistry, 2015, 197, 40-46.	2.8	34
155	Synergistic effects of flow and interfaces on antibody aggregation. Biotechnology and Bioengineering, 2020, 117, 417-428.	3.3	34
156	Isolation of extracellular vesicles from microalgae: towards the production of sustainable and natural nanocarriers of bioactive compounds. Biomaterials Science, 2021, 9, 2917-2930.	5.4	34
157	H-ferritin suppression and pronounced mitochondrial respiration make Hepatocellular Carcinoma cells sensitive to RSL3-induced ferroptosis. Free Radical Biology and Medicine, 2021, 169, 294-303.	2.9	34
158	Analysis of biomolecular condensates and protein phase separation with microfluidic technology. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118823.	4.1	33
159	Sequestration within biomolecular condensates inhibits AÎ²-42 amyloid formation. Chemical Science, 2021, 12, 4373-4382.	7.4	33
160	Double-Gradient Denaturing Gradient Gel Electrophoresis Assay for Identification of L-Ferritin Iron-responsive Element Mutations Responsible for Hereditary Hyperferritinemia-Cataract Syndrome: Identification of the New Mutation C14G. Clinical Chemistry, 2001, 47, 491-497.	3.2	32
161	Scanning mutations of the 5â€²UTR regulatory sequence of l -ferritin by denaturing high-performance liquid chromatography: identification of new mutations. British Journal of Haematology, 2003, 121, 173-179.	2.5	32
162	In-vitro and in-vivo characterization of CRANAD-2 for multi-spectral optoacoustic tomography and fluorescence imaging of amyloid-beta deposits in Alzheimer mice. Photoacoustics, 2021, 23, 100285.	7.8	32

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163	Fusion of the antiferritin antibody VL domain to barnase results in enhanced solubility and altered pH stability. Protein Engineering, Design and Selection, 2004, 17, 85-93.	2.1	31
164	Antiferritin Single-Chain Fv Fragment Is a Functional Protein with Properties of a Partially Structured State:Â Comparison with the Completely Folded VLDomainâ€. Biochemistry, 2000, 39, 8047-8057.	2.5	30
165	Magnetic and relaxation properties of multifunctional polymerâ€based nanostructured bioferrofluids as MRI contrast agents. Magnetic Resonance in Medicine, 2011, 66, 1715-1721.	3.0	30
166	Recombinant human hepcidin expressed in Escherichia coli isolates as an iron containing protein. Blood Cells, Molecules, and Diseases, 2005, 35, 177-181.	1.4	29
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