Paolo Arosio

List of Publications by Year in Descending Order

307 papers	17,385 citations	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	Double-Layer Fatty Acid Nanoparticles as a Multiplatform for Diagnostics and Therapy.. *Nanomaterials*, **2022**, 12,	5.4	4
306	Measuring Self-Association of Antibody Lead Candidates with Dynamic Light Scattering. *Methods in Molecular Biology*, **2022**, 2313, 241-258	1.4	1
305	Biochemical, Biophysical and Functional Characterization of an Insoluble Iron Containing HepcidinFerritin Chimeric Monomer Assembled Together with Human Ferritin H/L Chains at Different Molar Ratios. *Current Issues in Molecular Biology*, **2022**, 44, 117-127	2.9	
304	Iron Mobilization from Ferritin in Yeast Cell Lysate and Physiological Implications. *International Journal of Molecular Sciences*, **2022**, 23, 6100	6.3	2
303	Management of transthyretin amyloidosis. *Swiss Medical Weekly*, **2021**, 151, w30053	3.1	1
302	Longitudinal and transverse NMR relaxivities of Ln(III)-DOTA complexes: A comprehensive investigation. *Journal of Chemical Physics*, **2021**, 155, 214201	3.9	0
301	Programmable Zwitterionic Droplets as Biomolecular Sorters and Model of Membraneless Organelles. *Advanced Materials*, **2021**, 34, e2104837	24	5
300	The role of surfaces on amyloid formation. *Biophysical Chemistry*, **2021**, 270, 106533	3.5	18
299	Machine Learning for Biologics: Opportunities for Protein Engineering, Developability, and Formulation. *Trends in Pharmacological Sciences*, **2021**, 42, 151-165	13.2	31
298	Nanoalgosomes: Introducing extracellular vesicles produced by microalgae. *Journal of Extracellular Vesicles*, **2021**, 10, e12081	16.4	17
297	Broad-Band Spectrum, High-Sensitivity Absorbance Spectroscopy in Picoliter Volumes. *Analytical Chemistry*, **2021**, 93, 7673-7681	7.8	6
296	Rapid Characterization and Quantification of Extracellular Vesicles by Fluorescence-Based Microfluidic Diffusion Sizing. *Advanced Healthcare Materials*, **2021**, e2100021	10.1	4
295	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	7.8	8
294	Hybrid Models Based on Machine Learning and an Increasing Degree of Process Knowledge: Application to Capture Chromatographic Step. *Industrial & Engineering Chemistry Research*, **2021**, 60, 10466-10478	3.9	9
293	Analysis of biomolecular condensates and protein phase separation with microfluidic technology. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2021**, 1868, 118823	4.9	16
292	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	4.9	18
291	BMP6 binding to heparin and heparan sulfate is mediated by N-terminal and C-terminal clustered basic residues. *Biochimica Et Biophysica Acta - General Subjects*, **2021**, 1865, 129799	4	3

290	Isolation of extracellular vesicles from microalgae: towards the production of sustainable and natural nanocarriers of bioactive compounds. *Biomaterials Science*, **2021**, 9, 2917-2930	7.4	13
289	Iron distribution in different tissues of homozygous Mask (msk/msk) mice and the effects of oral iron treatments. *American Journal of Hematology*, **2021**, 96, 1253-1263	7.1	
288	A Novel Approach for the Synthesis of Human Heteropolymer Ferritins of Different H to L Subunit Ratios. *Journal of Molecular Biology*, **2021**, 433, 167198	6.5	1
287	Modeling of Continuous PHA Production by a Hybrid Approach Based on First Principles and Machine Learning. *Processes*, **2021**, 9, 1560	2.9	2
286	Design of Biopharmaceutical Formulations Accelerated by Machine Learning. *Molecular Pharmaceutics*, **2021**, 18, 3843-3853	5.6	4
285	The binding of the small heat-shock protein B-crystallin to fibrils of Bynuclein is driven by entropic forces. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
284	and characterization of CRANAD-2 for multi-spectral optoacoustic tomography and fluorescence imaging of amyloid-beta deposits in Alzheimer mice. *Photoacoustics*, **2021**, 23, 100285	9	9
283	Sequestration within biomolecular condensates inhibits A42 amyloid formation. *Chemical Science*, **2021**, 12, 4373-4382	9.4	8
282	Innentitelbild: Adaptive Chemoenzymatic Microreactors Composed of Inorganic Nanoparticles and Bioinspired Intrinsically Disordered Proteins (Angew. Chem. 21/2020). *Angewandte Chemie*, **2020**, 132, 8046-8046	3.6	
281	Single Droplet Detection: A Counter Propagating Lens-Mirror System for Ultrahigh Throughput Single Droplet Detection (Small 20/2020). *Small*, **2020**, 16, 2070112	11	
280	Ferritin in glioblastoma. *British Journal of Cancer*, **2020**, 122, 1441-1444	8.7	1
279	Adaptive Chemoenzymatic Microreactors Composed of Inorganic Nanoparticles and Bioinspired Intrinsically Disordered Proteins. *Angewandte Chemie - International Edition*, **2020**, 59, 8138-8142	16.4	13
278	Microfluidic Shrinking Droplet Concentrator for Analyte Detection and Phase Separation of Protein Solutions. *Analytical Chemistry*, **2020**, 92, 5803-5812	7.8	19
277	Thermodynamic and Kinetic Studies of the Interaction of Nuclear Receptor Coactivator-4 (NCOA4) with Human Ferritin. *Biochemistry*, **2020**, 59, 2707-2717	3.2	8
276	Acceleration of an Enzymatic Reaction in Liquid Phase Separated Compartments Based on Intrinsically Disordered Protein Domains. *ChemSystemsChem*, **2020**, 2, e2000001	3.1	19
275	Pentosan polysulfate to control hepcidin expression in vitro and in vivo. *Biochemical Pharmacology*, **2020**, 175, 113867	6	9
274	Establishment of a scalable microfluidic assay for characterization of population-based neutrophil chemotaxis. *Allergy: European Journal of Allergy and Clinical Immunology*, **2020**, 75, 1382-1393	9.3	6
273	Relationship of PEG-induced precipitation with protein-protein interactions and aggregation rates of high concentration mAb formulations at 5 °C. *European Journal of Pharmaceutics and Biopharmaceutics*, **2020**, 151, 53-60	5.7	9

272	Dynamics of oligomer populations formed during the aggregation of Alzheimer's Aβ42 peptide. *Nature Chemistry*, **2020**, 12, 445-451	17.6	103
271	Hadron Therapy, Magnetic Nanoparticles and Hyperthermia: A Promising Combined Tool for Pancreatic Cancer Treatment. *Nanomaterials*, **2020**, 10,	5.4	35
270	Magnetic stimulation of gold fiducial markers used in Image-Guided Radiation Therapy: Evidences of hyperthermia effects. *Measurement: Journal of the International Measurement Confederation*, **2020**, 151, 107242	4.6	1
269	Accelerated Aggregation Studies of Monoclonal Antibodies: Considerations for Storage Stability. *Journal of Pharmaceutical Sciences*, **2020**, 109, 595-602	3.9	12
268	Synergistic effects of flow and interfaces on antibody aggregation. *Biotechnology and Bioengineering*, **2020**, 117, 417-428	4.9	16
267	A Nanoparticle-Based Assay To Evaluate Surface-Induced Antibody Instability. *Molecular Pharmaceutics*, **2020**, 17, 909-918	5.6	7
266	Cellular binding analysis of recombinant hybrid heteropolymer of camel hepcidin and human ferritin H chain. The unexpected human H-ferritin binding to J774 murine macrophage cells. *Molecular Biology Reports*, **2020**, 47, 1265-1273	2.8	0
265	Adaptive Chemoenzymatic Microreactors Composed of Inorganic Nanoparticles and Bioinspired Intrinsically Disordered Proteins. *Angewandte Chemie*, **2020**, 132, 8215-8219	3.6	
264	Acceleration of an Enzymatic Reaction in Liquid Phase Separated Compartments Based on Intrinsically Disordered Protein Domains. *ChemSystemsChem*, **2020**, 2, e2000027	3.1	1
263	An accelerated surface-mediated stress assay of antibody instability for developability studies. *MAbs*, **2020**, 12, 1815995	6.6	9
262	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	11.5	15
261	A Molecular Logic Gate Enables Single-Molecule Imaging and Tracking of Lipids in Intracellular Domains. *ACS Chemical Biology*, **2020**, 15, 2597-2604	4.9	3
260	A Counter Propagating Lens-Mirror System for Ultrahigh Throughput Single Droplet Detection. *Small*, **2020**, 16, e1907534	11	7
259	The Antitumor Didox Acts as an Iron Chelator in Hepatocellular Carcinoma Cells. *Pharmaceuticals*, **2019**, 12,	5.2	1
258	Sensitivity analysis of the variability of amyloid aggregation profiles. *Physical Chemistry Chemical Physics*, **2019**, 21, 1435-1442	3.6	8
257	Potential Role of H-Ferritin in Mitigating Valvular Mineralization. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 413-431	9.4	13
256	Scalable Production and Isolation of Extracellular Vesicles: Available Sources and Lessons from Current Industrial Bioprocesses. *Biotechnology Journal*, **2019**, 14, e1800528	5.6	32
255	Secondary nucleation and elongation occur at different sites on Alzheimer's amyloid-β aggregates. *Science Advances*, **2019**, 5, eaau3112	14.3	74

254	Ferritin exhibits Michaelis-Menten behavior with oxygen but not with iron during iron oxidation and core mineralization. *Metallomics*, **2019**, 11, 774-783	4.5	10
253	Ferritin Light Chain Confers Protection Against Sepsis-Induced Inflammation and Organ Injury. *Frontiers in Immunology*, **2019**, 10, 131	8.4	33
252	Elongated magnetic nanoparticles with high-aspect ratio: a nuclear relaxation and specific absorption rate investigation. *Physical Chemistry Chemical Physics*, **2019**, 21, 18741-18752	3.6	11
251	Mutant L-chain ferritins that cause neuroferritinopathy alter ferritin functionality and iron permeability. *Metallomics*, **2019**, 11, 1635-1647	4.5	9
250	Cell Membrane-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	10.1	24
249	Biodegradable zwitterionic nanoparticles with tunable UCST-type phase separation under physiological conditions. *Nanoscale*, **2019**, 11, 16582-16591	7.7	23
248	Hepatic heparan sulfate is a master regulator of hepcidin expression and iron homeostasis in human hepatocytes and mice. *Journal of Biological Chemistry*, **2019**, 294, 13292-13303	5.4	9
247	Design and site-directed compartmentalization of gold nanoclusters within the intrasubunit interfaces of ferritin nanocage. *Journal of Nanobiotechnology*, **2019**, 17, 79	9.4	12
246	Dynamics of Synthetic Membraneless Organelles in Microfluidic Droplets. *Angewandte Chemie - International Edition*, **2019**, 58, 14489-14494	16.4	30
245	Dynamics of Synthetic Membraneless Organelles in Microfluidic Droplets. *Angewandte Chemie*, **2019**, 131, 14631-14636	3.6	5
244	Multifunctional Nanovectors Based on Polyamidoamine Polymers for Theranostic Application. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 5020-5026	1.3	6
243	Pat1 promotes processing body assembly by enhancing the phase separation of the DEAD-box ATPase Dhh1 and RNA. *ELife*, **2019**, 8,	8.9	30
242	Dynamics and Control of Peptide Self-Assembly and Aggregation. *Advances in Experimental Medicine and Biology*, **2019**, 1174, 1-33	3.6	5
241	Role of Zn2+ Substitution on the Magnetic, Hyperthermic, and Relaxometric Properties of Cobalt Ferrite Nanoparticles. *Journal of Physical Chemistry C*, **2019**, 123, 6148-6157	3.8	41
240	The role of heparin, heparanase and heparan sulfates in hepcidin regulation. *Vitamins and Hormones*, **2019**, 110, 157-188	2.5	8
239	Back Cover Picture: Biotechnology Journal 10/2019. *Biotechnology Journal*, **2019**, 14, 1970104	5.6	
238	□Synuclein in blood cells differentiates Parkinson□s disease from healthy controls. *Annals of Clinical and Translational Neurology*, **2019**, 6, 2426-2436	5.3	11
237	A new catechol-functionalized polyamidoamine as an effective SPION stabilizer. *Colloids and Surfaces B: Biointerfaces*, **2019**, 174, 260-269	6	7

236	In-gel study of the effect of magnetic nanoparticles immobilization on their heating efficiency for application in Magnetic Fluid Hyperthermia. *Journal of Magnetism and Magnetic Materials*, **2019**, 471, 504-512	2.8	14
235	On the use of superparamagnetic hydroxyapatite nanoparticles as an agent for magnetic and nuclear in vivo imaging. *Acta Biomaterialia*, **2018**, 73, 458-469	10.8	35
234	Microfluidic Approaches for the Characterization of Therapeutic Proteins. *Journal of Pharmaceutical Sciences*, **2018**, 107, 1228-1236	3.9	25
233	Microfluidics for Protein Biophysics. *Journal of Molecular Biology*, **2018**, 430, 565-580	6.5	32
232	Microfluidic Diffusion Analysis of the Size Distribution and Microrheological Properties of Antibody Solutions at High Concentrations. *Industrial & Engineering Chemistry Research*, **2018**, 57, 7112-7120	3.9	13
231	Conjugation of a GM3 lactone mimetic on carbon nanotubes enhances the related inhibition of melanoma-associated metastatic events. *Organic and Biomolecular Chemistry*, **2018**, 16, 6086-6095	3.9	3
230	Conserved S/T Residues of the Human Chaperone DNAJB6 Are Required for Effective Inhibition of A□2 Amyloid Fibril Formation. *Biochemistry*, **2018**, 57, 4891-4902	3.2	23
229	Engineering Aspects of Protein Interactions and Self-assembly. *Chimia*, **2018**, 72, 304-308	1.3	
228	Sucrosomial Iron Supplementation in Mice: Effects on Blood Parameters, Hepcidin, and Inflammation. *Nutrients*, **2018**, 10,	6.7	15
227	Multifunctional Protein Materials and Microreactors using Low Complexity Domains as Molecular Adhesives. *ACS Nano*, **2018**, 12, 9991-9999	16.7	29
226	A hydrophobic low-complexity region regulates aggregation of the yeast pyruvate kinase Cdc19 into amyloid-like aggregates. *Journal of Biological Chemistry*, **2018**, 293, 11424-11432	5.4	13
225	Cooperative Assembly of Hsp70 Subdomain Clusters. *Biochemistry*, **2018**, 57, 3641-3649	3.2	8
224	Mitochondrial ferritin deficiency reduces male fertility in mice. *Reproduction, Fertility and Development*, **2017**, 29, 2005-2010	1.8	8
223	Inhibition of □Synuclein Fibril Elongation by Hsp70 Is Governed by a Kinetic Binding Competition between □Synuclein Species. *Biochemistry*, **2017**, 56, 1177-1180	3.2	45
222	Superparamagnetic iron oxide nanoparticles functionalized by peptide nucleic acids. *RSC Advances*, **2017**, 7, 15500-15512	3.7	30
221	Iron Oxidation and Core Formation in Recombinant Heteropolymeric Human Ferritins. *Biochemistry*, **2017**, 56, 3900-3912	3.2	35
220	Selective targeting of primary and secondary nucleation pathways in A□2 aggregation using a rational antibody scanning method. *Science Advances*, **2017**, 3, e1700488	14.3	81
219	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	11.5	41

218	Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. *Chemical Society Reviews*, **2017**, 46, 4661-4708	58.5	467
217	PEGylated Anionic Magnetofluorescent Nanoassemblies: Impact of Their Interface Structure on Magnetic Resonance Imaging Contrast and Cellular Uptake. *ACS Applied Materials & Interfaces*, **2017**, 9, 14242-14257	9.5	9
216	Ferritin, cellular iron storage and regulation. *IUBMB Life*, **2017**, 69, 414-422	4.7	143
215	Systematic development of small molecules to inhibit specific microscopic steps of A□42 aggregation in Alzheimer□s disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E200-E208	11.5	134
214	Study of ferritin self-assembly and heteropolymer formation by the use of Fluorescence Resonance Energy Transfer (FRET) technology. *Biochimica Et Biophysica Acta - General Subjects*, **2017**, 1861, 522-532	4	16
213	Production and characterization of functional recombinant hybrid heteropolymers of camel hepcidin and human ferritin H and L chains. *Protein Engineering, Design and Selection*, **2017**, 30, 77-84	1.9	6
212	Biophysical Aspects of Alzheimer□s Disease: Implications for Pharmaceutical Sciences : Theme: Drug Discovery, Development and Delivery in Alzheimer□s Disease Guest Editor: Davide Brambilla. *Pharmaceutical Research*, **2017**, 34, 2628-2636	4.5	1
211	Effect of chaotropes on the kinetics of iron release from ferritin by flavin nucleotides. *Biochimica Et Biophysica Acta - General Subjects*, **2017**, 1861, 3257-3262	4	11
210	Mechanistic Origin of the Combined Effect of Surfaces and Mechanical Agitation on Amyloid Formation. *ACS Nano*, **2017**, 11, 11358-11367	16.7	34
209	Expression and characterization of the ferritin binding domain of Nuclear Receptor Coactivator-4 (NCOA4). *Biochimica Et Biophysica Acta - General Subjects*, **2017**, 1861, 2710-2716	4	29
208	Recombinant overexpression of camel hepcidin cDNA in Pichia pastoris: purification and characterization of the polyHis-tagged peptide HepcD-His. *Journal of Molecular Recognition*, **2017**, 30, e2561	2.6	2
207	Non-Anticoagulant Heparins Are Hepcidin Antagonists for the Treatment of Anemia. *Molecules*, **2017**, 22,	4.8	18
206	Insights on the (Auto)Photocatalysis of Ferritin. *Inorganic Chemistry*, **2016**, 55, 6047-50	5.1	6
205	Particle-Based Monte-Carlo Simulations of Steady-State Mass Transport at Intermediate P□let Numbers. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2016**, 17, 175-183	1.8	20
204	Photoacoustic molecular imaging for in vivo liver iron quantitation. *Journal of Biomedical Optics*, **2016**, 21, 56008	3.5	3
203	Pharmacological induction of ferritin prevents osteoblastic transformation of smooth muscle cells. *Journal of Cellular and Molecular Medicine*, **2016**, 20, 217-30	5.6	21
202	An anticancer drug suppresses the primary nucleation reaction that initiates the production of the toxic A□42 aggregates linked with Alzheimer□s disease. *Science Advances*, **2016**, 2, e1501244	14.3	133
201	Microfluidic Diffusion Viscometer for Rapid Analysis of Complex Solutions. *Analytical Chemistry*, **2016**, 88, 3488-93	7.8	20

200	Molecular mechanisms of protein aggregation from global fitting of kinetic models. *Nature Protocols*, **2016**, 11, 252-72	18.8	342
199	Microfluidic Diffusion Analysis of the Sizes and Interactions of Proteins under Native Solution Conditions. *ACS Nano*, **2016**, 10, 333-41	16.7	61
198	Iron Homeostasis in Health and Disease. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	185
197	Heparanase Overexpression Reduces Hepcidin Expression, Affects Iron Homeostasis and Alters the Response to Inflammation. *PLoS ONE*, **2016**, 11, e0164183	3.7	15
196	Kinetic analysis reveals the diversity of microscopic mechanisms through which molecular chaperones suppress amyloid formation. *Nature Communications*, **2016**, 7, 10948	17.4	153
195	Structural Ensembles of Membrane-bound Synuclein Reveal the Molecular Determinants of Synaptic Vesicle Affinity. *Scientific Reports*, **2016**, 6, 27125	4.9	62
194	Energetics of surface confined ferritin during iron loading. *Colloids and Surfaces B: Biointerfaces*, **2016**, 145, 520-525	6	5
193	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	17.6	87
192	SPIO@SiO2Re@PEG nanoparticles as magneto-optical dual probes and sensitizers for photodynamic therapy. *RSC Advances*, **2016**, 6, 38521-38532	3.7	7
191	Analysis of the length distribution of amyloid fibrils by centrifugal sedimentation. *Analytical Biochemistry*, **2016**, 504, 7-13	3.1	10
190	On the lag phase in amyloid fibril formation. *Physical Chemistry Chemical Physics*, **2015**, 17, 7606-18	3.6	421
189	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	7.5	46
188	The importance of iron in pathophysiologic conditions. *Frontiers in Pharmacology*, **2015**, 6, 26	5.6	18
187	A Colloidal Description of Intermolecular Interactions Driving Fibril-Fibril Aggregation of a Model Amphiphilic Peptide. *Langmuir*, **2015**, 31, 7590-600	4	12
186	Preventing peptide and protein misbehavior. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 5267-8	11.5	7
185	Macrophage and epithelial cell H-ferritin expression regulates renal inflammation. *Kidney International*, **2015**, 88, 95-108	9.9	51
184	The Ferritin-Heavy-Polypeptide-Like-17 (FTHL17) gene encodes a ferritin with low stability and no ferroxidase activity and with a partial nuclear localization. *Biochimica Et Biophysica Acta - General Subjects*, **2015**, 1850, 1267-73	4	17
183	MR imaging and targeting of human breast cancer cells with folate decorated nanoparticles. *RSC Advances*, **2015**, 5, 39760-39770	3.7	8

182	Effect of polyol sugars on the stabilization of monoclonal antibodies. *Biophysical Chemistry*, **2015**, 197, 40-6	3.5	26
181	Local spin dynamics at low temperature in the slowly relaxing molecular chain [Dy(hfac)3{NIT(C6H4OPh)}]: A spin relaxation study. *Journal of Applied Physics*, **2015**, 117, 17B310	2.5	2
180	Dynamics of protein aggregation and oligomer formation governed by secondary nucleation. *Journal of Chemical Physics*, **2015**, 143, 054901	3.9	36
179	Biophysical approaches for the study of interactions between molecular chaperones and protein aggregates. *Chemical Communications*, **2015**, 51, 14425-34	5.8	16
178	A microfluidic platform for quantitative measurements of effective protein charges and single ion binding in solution. *Physical Chemistry Chemical Physics*, **2015**, 17, 12161-7	3.6	15
177	Latent analysis of unmodified biomolecules and their complexes in solution with attomole detection sensitivity. *Nature Chemistry*, **2015**, 7, 802-9	17.6	44
176	Sol-gel transition of charged fibrils composed of a model amphiphilic peptide. *Journal of Colloid and Interface Science*, **2015**, 437, 244-251	9.3	19
175	Chemically and biologically harmless versus harmful ferritin/copper-metallothionein couples. *Chemistry - A European Journal*, **2015**, 21, 808-13	4.8	4
174	A multiscale view of therapeutic protein aggregation: a colloid science perspective. *Biotechnology Journal*, **2015**, 10, 367-78	5.6	51
173	Electron Spin Resonance and Atomic Force Microscopy Study on Gadolinium Doped Ceria. *Journal of Spectroscopy*, **2015**, 2015, 1-6	1.5	3
172	Contribution of Electrostatics in the Fibril Stability of a Model Ionic-Complementary Peptide. *Biomacromolecules*, **2015**, 16, 3792-801	6.9	11
171	The importance of eukaryotic ferritins in iron handling and cytoprotection. *Biochemical Journal*, **2015**, 472, 1-15	3.8	58
170	A molecular chaperone breaks the catalytic cycle that generates toxic A oligomers. *Nature Structural and Molecular Biology*, **2015**, 22, 207-213	17.6	268
169	Behavioral characterization of mouse models of neuroferritinopathy. *PLoS ONE*, **2015**, 10, e0118990	3.7	15
168	High Sulfation and a High Molecular Weight Are Important for Anti-hepcidin Activity of Heparin. *Frontiers in Pharmacology*, **2015**, 6, 316	5.6	14
167	Glycol-split nonanticoagulant heparins are inhibitors of hepcidin expression in vitro and in vivo. *Blood*, **2014**, 123, 1564-73	2.2	53
166	New signaling pathways for hepcidin regulation. *Blood*, **2014**, 123, 1433-4	2.2	6
165	Chemical kinetics for drug discovery to combat protein aggregation diseases. *Trends in Pharmacological Sciences*, **2014**, 35, 127-35	13.2	161

164	Quantification of the concentration of A□2 propagons during the lag phase by an amyloid chain reaction assay. *Journal of the American Chemical Society*, **2014**, 136, 219-25	16.4	102
163	Oversulfated heparins with low anticoagulant activity are strong and fast inhibitors of hepcidin expression in vitro and in vivo. *Biochemical Pharmacology*, **2014**, 92, 467-75	6	36
162	Interaction of the molecular chaperone DNAJB6 with growing amyloid-beta 42 (A□2) aggregates leads to sub-stoichiometric inhibition of amyloid formation. *Journal of Biological Chemistry*, **2014**, 289, 31066-76	5.4	106
161	Sulfate anion delays the self-assembly of human insulin by modifying the aggregation pathway. *Biophysical Journal*, **2014**, 107, 197-207	2.9	13
160	Kinetic analysis of the multistep aggregation mechanism of monoclonal antibodies. *Journal of Physical Chemistry B*, **2014**, 118, 10595-606	3.4	35
159	Role of cosolutes in the aggregation kinetics of monoclonal antibodies. *Journal of Physical Chemistry B*, **2014**, 118, 11921-30	3.4	14
158	Biology of ferritin in mammals: an update on iron storage, oxidative damage and neurodegeneration. *Archives of Toxicology*, **2014**, 88, 1787-802	5.8	101
157	Superparamagnetic iron oxide nanoparticles stabilized by a poly(amidoamine)-rhenium complex as potential theranostic probe. *Dalton Transactions*, **2014**, 43, 1172-83	4.3	16
156	Mice lacking mitochondrial ferritin are more sensitive to doxorubicin-mediated cardiotoxicity. *Journal of Molecular Medicine*, **2014**, 92, 859-69	5.5	33
155	Density-gradient-free microfluidic centrifugation for analytical and preparative separation of nanoparticles. *Nano Letters*, **2014**, 14, 2365-71	11.5	34
154	The role of stable □synuclein oligomers in the molecular events underlying amyloid formation. *Journal of the American Chemical Society*, **2014**, 136, 3859-68	16.4	163
153	Role of urea on recombinant Apo A-I stability and its utilization in anion exchange chromatography. *Journal of Chromatography A*, **2014**, 1354, 18-25	4.5	11
152	Novel functional changes during podocyte differentiation: increase of oxidative resistance and H-ferritin expression. *Oxidative Medicine and Cellular Longevity*, **2014**, 2014, 976394	6.7	8
151	Iron acquisition in Bacillus cereus: the roles of IlsA and bacillibactin in exogenous ferritin iron mobilization. *PLoS Pathogens*, **2014**, 10, e1003935	7.6	27
150	Hepcidin antagonists for potential treatments of disorders with hepcidin excess. *Frontiers in Pharmacology*, **2014**, 5, 86	5.6	85
149	Zirconia-doped nanoparticles: organic coating, polymeric entrapment and application as dual-imaging agents. *Journal of Materials Chemistry B*, **2013**, 1, 919-923	7.3	9
148	Iron release from ferritin by flavin nucleotides. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 4669-74	4	37
147	Aggregation mechanism of an IgG2 and two IgG1 monoclonal antibodies at low pH: from oligomers to larger aggregates. *Pharmaceutical Research*, **2013**, 30, 641-54	4.5	85

146	Coexistence of plasmonic and magnetic properties in Au89Fe11 nanoalloys. *Nanoscale*, **2013**, 5, 5611-9	7.7	77
145	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, 5317-5328	7.3	54
144	Magnetism and spin dynamics of novel encapsulated iron oxide superparamagnetic nanoparticles. *Dalton Transactions*, **2013**, 42, 10282-91	4.3	4
143	Proximal tubule H-ferritin mediates iron trafficking in acute kidney injury. *Journal of Clinical Investigation*, **2013**, 123, 4423-34	15.9	115
142	Population balance modeling of antibodies aggregation kinetics. *Journal of Physical Chemistry B*, **2012**, 116, 7066-75	3.4	67
141	Stability and gelation behavior of bovine serum albumin pre-aggregates in the presence of calcium chloride. *Physical Chemistry Chemical Physics*, **2012**, 14, 4906-16	3.6	19
140	Fluorescent and paramagnetic core□shell hybrid nanoparticles for bi-modal magnetic resonance/luminescence imaging. *Journal of Materials Chemistry*, **2012**, 22, 20641		24
139	Biofortification for combating □hidden hunger□for iron. *Trends in Plant Science*, **2012**, 17, 47-55	13.1	105
138	End-to-end self-assembly of RADA 16-I nanofibrils in aqueous solutions. *Biophysical Journal*, **2012**, 102, 1617-26	2.9	38
137	On the role of salt type and concentration on the stability behavior of a monoclonal antibody solution. *Biophysical Chemistry*, **2012**, 168-169, 19-27	3.5	58
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