

Aitziber Cortajarena

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110 papers	2,812 citations	31 h-index	48 g-index
117 ext. papers	3,296 ext. citations	7.3 avg, IF	5.35 L-index

#	Paper	IF	Citations
110	Protein-based (bio)materials: a way toward high-performance graphene enzymatic biosensors. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5466-5473	7.1	0
109	Intraparticle Kinetics Unveil Crowding and Enzyme Distribution Effects on the Performance of Cofactor-Dependent Heterogeneous Biocatalysts.. <i>ACS Catalysis</i> , 2021 , 11, 15051-15067	13.1	3
108	Correlative 3D cryo X-ray imaging reveals intracellular location and effect of designed antifibrotic protein-nanomaterial hybrids.. <i>Chemical Science</i> , 2021 , 12, 15090-15103	9.4	2
107	Boosting the Photoluminescent Properties of Protein-Stabilized Gold Nanoclusters through Protein Engineering. <i>Nano Letters</i> , 2021 , 21, 9347-9353	11.5	3
106	3D-Printed Bioplastics with Shape-Memory Behavior Based on Native Bovine Serum Albumin. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19193-19199	9.5	8
105	Enhancing the Photocatalytic Conversion of Pt(IV) Substrates by Flavoprotein Engineering. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4504-4508	6.4	3
104	Sample preparation strategies for efficient correlation of 3D SIM and soft X-ray tomography data at cryogenic temperatures. <i>Nature Protocols</i> , 2021 , 16, 2851-2885	18.8	7
103	Engineering conductive protein films through nanoscale self-assembly and gold nanoparticles doping. <i>Nanoscale</i> , 2021 , 13, 6772-6779	7.7	2
102	Immobilization Screening and Characterization of an Alcohol Dehydrogenase and its Application to the Multi-Enzymatic Selective Oxidation of 1,-Omega-Diols. <i>Frontiers in Catalysis</i> , 2021 , 1,		2
101	Biomarker sensing platforms based on fluorescent metal nanoclusters. <i>Nanoscale Advances</i> , 2021 , 3, 1331-1341	5.1	6
100	Iron Oxide Nanoparticles as Carriers for DOX and Magnetic Hyperthermia after Intratumoral Application into Breast Cancer in Mice: Impact and Future Perspectives. <i>Nanomaterials</i> , 2020 , 10,	5.4	19
99	Protein-based functional hybrid bionanomaterials by bottom-up approaches. <i>Current Opinion in Structural Biology</i> , 2020 , 63, 74-81	8.1	10
98	Tailored Functionalized Magnetic Nanoparticles to Target Breast Cancer Cells Including Cancer Stem-Like Cells. <i>Cancers</i> , 2020 , 12,	6.6	6
97	Protein Design for the Synthesis and Stabilization of Highly Fluorescent Quantum Dots. <i>Chemistry of Materials</i> , 2020 , 32, 5729-5738	9.6	7
96	White-emitting Protein-Metal Nanocluster Phosphors for Highly Performing Biohybrid Light-Emitting Diodes. <i>Nano Letters</i> , 2020 , 20, 2710-2716	11.5	27
95	Magnetic core-shell nanowires as MRI contrast agents for cell tracking. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 42	9.4	13
94	Cancer Nano-Immunotherapy from the Injection to the Target: The Role of Protein Corona. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8

93	Immobilization of Enzymes in Protein Films. <i>Methods in Molecular Biology</i> , 2020 , 2100, 211-226	1.4	1
92	Long-living and highly efficient bio-hybrid light-emitting diodes with zero-thermal-quenching biophosphors. <i>Nature Communications</i> , 2020 , 11, 879	17.4	16
91	Biogenic fluorescent protein silk fibroin phosphors for high performing light-emitting diodes. <i>Materials Horizons</i> , 2020 , 7, 1790-1800	14.4	13
90	Protein-directed crystalline 2D fullerene assemblies. <i>Nanoscale</i> , 2020 , 12, 3614-3622	7.7	8
89	Discovering Biomolecules with Activity: Designed Repeat Proteins as Biocatalysts for (3 + 2) Cycloadditions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 762-776	16.4	6
88	Flavin Bioorthogonal Photocatalysis Toward Platinum Substrates. <i>ACS Catalysis</i> , 2020 , 10, 187-196	13.1	17
87	Toward supramolecular nanozymes for the photocatalytic activation of Pt(IV) anticancer prodrugs. <i>Chemical Communications</i> , 2020 , 56, 10461-10464	5.8	7
86	Engineering multifunctional metal/protein hybrid nanomaterials as tools for therapeutic intervention and high-sensitivity detection. <i>Chemical Science</i> , 2020 , 12, 2480-2487	9.4	8
85	Engineered protein-based functional nanopatterned materials for bio-optical devices. <i>Nanoscale Advances</i> , 2019 , 1, 3980-3991	5.1	11
84	The phenotype of target pancreatic cancer cells influences cell death by magnetic hyperthermia with nanoparticles carrying gemcitabine and the pseudo-peptide NucAnt. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 20, 101983	6	22
83	Repeat proteins as versatile scaffolds for arrays of redox-active FeS clusters. <i>Chemical Communications</i> , 2019 , 55, 3319-3322	5.8	9
82	A Simple Approach to Design Proteins for the Sustainable Synthesis of Metal Nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6214-6219	16.4	43
81	A Simple Approach to Design Proteins for the Sustainable Synthesis of Metal Nanoclusters. <i>Angewandte Chemie</i> , 2019 , 131, 6280-6285	3.6	0
80	Biocatalytic Protein-Based Materials for Integration into Energy Devices. <i>ChemBioChem</i> , 2019 , 20, 1977-1985	13.8	7
79	Deciphering Limitations to Meet Highly Stable Bio-Hybrid Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2019 , 29, 1904356	15.6	7
78	Proteins are Solitary! Pathways of Protein Folding and Aggregation in Protein Mixtures. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4800-4804	6.4	13
77	A Versatile Approach for the Assembly of Highly Tunable Biocatalytic Thin Films. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900598	4.6	5
76	Iron-Based Core-Shell Nanowires for Combinatorial Drug Delivery and Photothermal and Magnetic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43976-43988	9.5	19

75	Mechanical performance of gelatin fiber mesh scaffolds reinforced with nano-hydroxyapatite under bone damage mechanisms. <i>Materials Today Communications</i> , 2019 , 19, 140-147	2.5	8
74	Charge-Induced Shifts in Chiral Surface Plasmon Modes in Gold Nanorod Assemblies. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800368	3.1	3
73	Fluorescent Flavoprotein Heterodimers: Combining Photostability with Singlet Oxygen Generation. <i>ChemPhotoChem</i> , 2018 , 2, 571-574	3.3	4
72	Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3143-3147	16.4	43
71	Fabrication of biocompatible and efficient antimicrobial porous polymer surfaces by the Breath Figures approach. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 820-830	9.3	13
70	Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins. <i>Angewandte Chemie</i> , 2018 , 130, 3197-3201	3.6	16
69	Detection of amyloid fibrils in Parkinson's disease using plasmonic chirality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3225-3230	11.5	124
68	Toward Bioelectronic Nanomaterials: Photoconductivity in ProteinPorphyrin Hybrids Wrapped around SWCNT. <i>Advanced Functional Materials</i> , 2018 , 28, 1704031	15.6	23
67	Self-assembly of repeat proteins: Concepts and design of new interfaces. <i>Journal of Structural Biology</i> , 2018 , 201, 118-129	3.4	8
66	Sensors Based on Metal Nanoclusters Stabilized on Designed Proteins. <i>Biosensors</i> , 2018 , 8,	5.9	10
65	Reduction of cardiac TGF β -mediated profibrotic events by inhibition of Hsp90 with engineered protein. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 123, 75-87	5.8	7
64	Smart pH-Responsive Antimicrobial Hydrogel Scaffolds Prepared by Additive Manufacturing.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1337-1347	4.1	21
63	Multifunctionalized iron oxide nanoparticles for selective targeting of pancreatic cancer cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1597-1605	4	50
62	Hydrogels with Modulated Ionic Load for Mammalian Cell Harvesting with Reduced Bacterial Adhesion. <i>Biomacromolecules</i> , 2017 , 18, 1521-1531	6.9	12
61	Elucidation of the Physicochemical Properties Ruling the Colloidal Stability of Iron Oxide Nanoparticles under Physiological Conditions. <i>ChemNanoMat</i> , 2017 , 3, 183-189	3.5	15
60	An experimental and computational framework for engineering multifunctional nanoparticles: designing selective anticancer therapies. <i>Nanoscale</i> , 2017 , 9, 13760-13771	7.7	8
59	Antimicrobial 3D Porous Scaffolds Prepared by Additive Manufacturing and Breath Figures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37454-37462	9.5	22
58	Highly Efficient Antibacterial Surfaces Based on Bacterial/Cell Size Selective Microporous Supports. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44270-44280	9.5	22

57	Preparation of Biodegradable Cationic Polycarbonates and Hydrogels through the Direct Polymerization of Quaternized Cyclic Carbonates. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1567-1575	5.5	21
56	Extracellular heat shock protein 90 binding to TGF β receptor I participates in TGF β -mediated collagen production in myocardial fibroblasts. <i>Cellular Signalling</i> , 2016 , 28, 1563-79	4.9	39
55	Functionalized magnetic nanowires for chemical and magneto-mechanical induction of cancer cell death. <i>Scientific Reports</i> , 2016 , 6, 35786	4.9	47
54	Assessing the potential of photosensitizing flavoproteins as tags for correlative microscopy. <i>Chemical Communications</i> , 2016 , 52, 8405-8	5.8	22
53	Multifunctionalized iron oxide nanoparticles for selective drug delivery to CD44-positive cancer cells. <i>Nanotechnology</i> , 2016 , 27, 065103	3.4	82
52	Assembly of designed protein scaffolds into monolayers for nanoparticle patterning. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 141, 93-101	6	13
51	Repeat protein scaffolds: ordering photo- and electroactive molecules in solution and solid state. <i>Chemical Science</i> , 2016 , 7, 4842-4847	9.4	23
50	Antibacterial Activity of DNA-Stabilized Silver Nanoclusters Tuned by Oligonucleotide Sequence. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10147-54	9.5	71
49	Designed Repeat Proteins as Building Blocks for Nanofabrication. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 940, 61-81	3.6	13
48	Protein Design for Nanostructural Engineering: General Aspects. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 940, 1-5	3.6	2
47	Protein Design for Nanostructural Engineering: Concluding Remarks and Future Directions. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 940, 281-284	3.6	2
46	Probing the Molecular Origin of Native-State Flexibility in Repeat Proteins. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10367-73	16.4	13
45	BSA-coated magnetic nanoparticles for improved therapeutic properties. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6239-6247	7.3	34
44	Poly(ethylene oxide) functionalized polyimide-based microporous films to prevent bacterial adhesion. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9716-24	9.5	18
43	Designed Modular Proteins as Scaffolds To Stabilize Fluorescent Nanoclusters. <i>Biomacromolecules</i> , 2015 , 16, 3836-44	6.9	33
42	Efficient treatment of breast cancer xenografts with multifunctionalized iron oxide nanoparticles combining magnetic hyperthermia and anti-cancer drug delivery. <i>Breast Cancer Research</i> , 2015 , 17, 66	8.3	183
41	Biomolecular templating of functional hybrid nanostructures using repeat protein scaffolds. <i>Biochemical Society Transactions</i> , 2015 , 43, 825-31	5.1	12
40	Patterning of individual Staphylococcus aureus bacteria onto photogenerated polymeric surface structures. <i>Polymer Chemistry</i> , 2015 , 6, 2677-2684	4.9	12

39	Selective Biorecognition on Polymer Surfaces: Remarks and Future Trends 2015 , 387-389		1
38	Biorecognition Molecules: Types and Molecular Basis and Development of Specificity 2015 , 45-63		
37	Formation of multigradient porous surfaces for selective bacterial entrapment. <i>Biomacromolecules</i> , 2014 , 15, 3338-48	6.9	19
36	Controlled nanometric fibers of self-assembled designed protein scaffolds. <i>Nanoscale</i> , 2014 , 6, 10982-8	7.7	25
35	Multifunctionalization of magnetic nanoparticles for controlled drug release: a general approach. <i>European Journal of Medicinal Chemistry</i> , 2014 , 82, 355-62	6.8	45
34	Study of Co-phthalocyanine films by surface plasmon resonance spectroscopy. <i>Journal of Applied Physics</i> , 2014 , 115, 103106	2.5	3
33	Fabrication of Functional Wrinkled Interfaces from Polymer Blends: Role of the Surface Functionality on the Bacterial Adhesion. <i>Polymers</i> , 2014 , 6, 2845-2861	4.5	11
32	Engineering Iron Oxide Nanoparticles for Clinical Settings. <i>Nanobiomedicine</i> , 2014 , 1, 2	4.8	76
31	Fluorescent proteins as singlet oxygen photosensitizers: mechanistic studies in photodynamic inactivation of bacteria 2013 ,		2
30	Nanostructured functional films from engineered repeat proteins. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130051	4.1	32
29	Singlet oxygen generation by the genetically encoded tag miniSOG. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9564-7	16.4	107
28	Honeycomb patterned surfaces functionalized with polypeptide sequences for recognition and selective bacterial adhesion. <i>Biomaterials</i> , 2013 , 34, 1453-60	15.6	42
27	Versatile functional microstructured polystyrene-based platforms for protein patterning and recognition. <i>Biomacromolecules</i> , 2013 , 14, 3147-54	6.9	5
26	Site-specific protein double labeling by expressed protein ligation: applications to repeat proteins. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 273-80	3.9	18
25	3.12 The Folding of Repeat Proteins 2012 , 267-289		
24	Calorimetric study of a series of designed repeat proteins: modular structure and modular folding. <i>Protein Science</i> , 2011 , 20, 336-40	6.3	35
23	Modulating repeat protein stability: the effect of individual helix stability on the collective behavior of the ensemble. <i>Protein Science</i> , 2011 , 20, 1042-7	6.3	40
22	Crystal structure of a designed tetratricopeptide repeat module in complex with its peptide ligand. <i>FEBS Journal</i> , 2010 , 277, 1058-66	5.7	39

21	Designed proteins to modulate cellular networks. <i>ACS Chemical Biology</i> , 2010 , 5, 545-52	4.9	41
20	Interdomain Ca(2+) effects in Escherichia coli alpha-haemolysin: Ca(2+) binding to the C-terminal domain stabilizes both C- and N-terminal domains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 1225-33	3.8	16
19	Screening libraries to identify proteins with desired binding activities using a split-GFP reassembly assay. <i>ACS Chemical Biology</i> , 2010 , 5, 553-62	4.9	42
18	Ligand binding by repeat proteins: natural and designed. <i>Current Opinion in Structural Biology</i> , 2008 , 18, 507-15	8.1	96
17	Mapping the energy landscape of repeat proteins using NMR-detected hydrogen exchange. <i>Journal of Molecular Biology</i> , 2008 , 379, 617-26	6.5	30
16	Non-random-coil behavior as a consequence of extensive PPII structure in the denatured state. <i>Journal of Molecular Biology</i> , 2008 , 382, 203-12	6.5	34
15	Designed TPR modules as novel anticancer agents. <i>ACS Chemical Biology</i> , 2008 , 3, 161-6	4.9	87
14	Comparison of the backbone dynamics of a natural and a consensus designed 3-TPR domain. <i>Journal of Biomolecular NMR</i> , 2008 , 41, 169-78	3	7
13	Structure and stability of designed TPR protein superhelices: unusual crystal packing and implications for natural TPR proteins. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007 , 63, 800-11		83
12	Consensus design as a tool for engineering repeat proteins. <i>Methods in Molecular Biology</i> , 2006 , 340, 151-70	1.4	40
11	Membrane insertion of Escherichia coli alpha-hemolysin is independent from membrane lysis. <i>Journal of Biological Chemistry</i> , 2006 , 281, 5461-7	5.4	27
10	Repeat motions and backbone flexibility in designed proteins with different numbers of identical consensus tetratricopeptide repeats. <i>Biochemistry</i> , 2006 , 45, 12175-83	3.2	20
9	Ligand binding by TPR domains. <i>Protein Science</i> , 2006 , 15, 1193-8	6.3	84
8	A new folding paradigm for repeat proteins. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10188-96	10.4	122
7	Protein design to understand peptide ligand recognition by tetratricopeptide repeat proteins. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 399-409	1.9	63
6	A receptor-binding region in Escherichia coli alpha-haemolysin. <i>Journal of Biological Chemistry</i> , 2003 , 278, 19159-63	5.4	40
5	Asp-863 is a key residue for calcium-dependent activity of Escherichia coli RTX toxin alpha-haemolysin. <i>FEBS Letters</i> , 2003 , 546, 271-5	3.8	6
4	His-859 is an essential residue for the activity and pH dependence of Escherichia coli RTX toxin alpha-hemolysin. <i>Journal of Biological Chemistry</i> , 2002 , 277, 23223-9	5.4	12

- 3 Glycophorin as a receptor for Escherichia coli alpha-hemolysin in erythrocytes. *Journal of Biological Chemistry*, **2001**, 276, 12513-9 5.4 65
- 2 Designing Artificial Fluorescent Proteins: Squaraine-LmrR Biophosphors for High Performance Deep-Red Biohybrid Light-Emitting Diodes. *Advanced Functional Materials*, 2111381 15.6 1
- 1 Tuning the Optical Properties of Au Nanoclusters by Designed Proteins. *Advanced Optical Materials*, 2101332 13.3 3