

Artem Melman

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Reconfigurable Implication and Inhibition Boolean logic gates based on NAD ⁺ -dependent enzymes: Application to signal-controlled biofuel cells and molecule release. <i>Electrochemical Science Advances</i> , 2022, 2, e2100008.	2.8	1
2	Circular Permutated PQQ-Glucose Dehydrogenase as an Ultrasensitive Electrochemical Biosensor. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	14
3	Iron(III)-cross-linked alginate hydrogels: a critical review. <i>Materials Advances</i> , 2022, 3, 1849-1873.	5.4	48
4	A magneto-controlled biocatalytic cascade with a fluorescent output. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1869-1873.	2.8	1
5	Electrochemically produced local pH changes stimulating (bio)molecule release from pH-switchable electrode-immobilized avidin-biotin systems. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6410-6414.	2.8	7
6	Controlling Porosity of Calcium Alginate Hydrogels by Interpenetrating Polyvinyl Alcohol-Diboronate Polymer Network. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1499-1507.	4.4	22
7	Magneto-Controlled Enzyme Activity with Locally Produced pH Changes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2523-2527.	4.6	6
8	Self-powered molecule release systems activated with chemical signals processed through reconfigurable Implication or Inhibition Boolean logic gates. <i>Bioelectrochemistry</i> , 2021, 138, 107735.	4.6	9
9	Switchable Biocatalytic Reactions Controlled by Interfacial pH Changes Produced by Orthogonal Biocatalytic Processes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33830-33839.	8.0	14
10	Complexation of ferrous ions by ferrozine, 2,2'-bipyridine and 1,10-phenanthroline: Implication for the quantification of iron in biological systems. <i>Journal of Inorganic Biochemistry</i> , 2021, 220, 111460.	3.5	24
11	Biomolecule Release from Alginate Composite Hydrogels Triggered by Logically Processed Signals. <i>ChemPhysChem</i> , 2021, 22, 1967-1975.	2.1	6
12	Operando Local pH Mapping of Electrochemical and Bioelectrochemical Reactions Occurring at an Electrode Surface: Effect of the Buffer Concentration. <i>ChemElectroChem</i> , 2021, 8, 3923-3935.	3.4	13
13	Connecting Artificial Proteolytic and Electrochemical Signaling Systems with Caged Messenger Peptides. <i>ACS Sensors</i> , 2021, 6, 3596-3603.	7.8	8
14	Smart-Delivery of Monoclonal Antibodies from a Magnetic Responsive Microgel Nanocomposite. <i>ACS Applied Bio Materials</i> , 2021, 4, 8487-8497.	4.6	7
15	Design of a methotrexate-controlled chemical dimerization system and its use in bio-electronic devices. <i>Nature Communications</i> , 2021, 12, 7137.	12.8	17
16	Molecular Release Associated with Interfacial pH Change Stimulated by a Small Electrical Potential Applied. <i>ChemElectroChem</i> , 2020, 7, 59-63.	3.4	14
17	Boolean Logic Networks Mimicked with Chimeric Enzymes Activated/Inhibited by Several Input Signals. <i>ChemPhysChem</i> , 2020, 21, 589-593.	2.1	10
18	Iron mineralization and core dissociation in mammalian homopolymeric H-ferritin: Current understanding and future perspectives. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129700.	2.4	16

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19	Electrochemical control of the catalytic activity of immobilized enzymes. <i>Chemical Communications</i> , 2020, 56, 13800-13803.	4.1	11
20	Nanozyme-Triggered DNA Release from Alginate Films. <i>ACS Applied Bio Materials</i> , 2020, 3, 3741-3750.	4.6	10
21	Electrochemically Generated Interfacial pH Change: Application to Signal-Triggered Molecule Release. <i>ChemElectroChem</i> , 2020, 7, 3386-3403.	3.4	16
22	Boolean Logic Networks Mimicked with Chimeric Enzymes Activated/Inhibited by Several Input Signals. <i>ChemPhysChem</i> , 2020, 21, 578-578.	2.1	0
23	Electrochemical Signal-Triggered Release of Biomolecules Functionalized with His-tag Units. <i>Electroanalysis</i> , 2019, 31, 2274-2282.	2.9	7
24	Selective Derivatization of Hexahistidine-Tagged Recombinant Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 237-250.	1.6	0
25	Electrochemically stimulated molecule release associated with interfacial pH changes. <i>Chemical Communications</i> , 2019, 55, 7856-7859.	4.1	20
26	Reductive Mobilization of Iron from Intact Ferritin: Mechanisms and Physiological Implication. <i>Pharmaceuticals</i> , 2018, 11, 120.	3.8	44
27	DNA Release from Fe ³⁺ -Cross-Linked Alginate Films Triggered by Logically Processed Biomolecular Signals: Integration of Biomolecular Computing and Actuation. <i>ChemPhysChem</i> , 2017, 18, 1811-1821.	2.1	37
28	Glucose-Triggered Insulin Release from Fe ³⁺ -Cross-Linked Alginate Hydrogel: Experimental Study and Theoretical Modeling. <i>ChemPhysChem</i> , 2017, 18, 1541-1551.	2.1	22
29	Effect of chaotropes on the kinetics of iron release from ferritin by flavin nucleotides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3257-3262.	2.4	13
30	Sensitive Analysis of Nitroguanidine in Aqueous and Soil Matrices by LC-MS. <i>Analytical Chemistry</i> , 2017, 89, 9990-9996.	6.5	8
31	Quantum Chemical Approach for Determining Degradation Pathways of Phenol by Electrical Discharge Plasmas. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 5-28.	2.4	7
32	Fabrication of patterned calcium cross-linked alginate hydrogel films and coatings through reductive cation exchange. <i>Carbohydrate Polymers</i> , 2015, 131, 57-64.	10.2	73
33	Substance Release Triggered by Biomolecular Signals in Bioelectronic Systems. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1340-1347.	4.6	74
34	Enzyme Induced Formation of Monodisperse Hydrogel Nanoparticles Tunable in Size. <i>Chemistry of Materials</i> , 2015, 27, 2557-2565.	6.7	10
35	Photochemical Patterning of Ionically Cross-Linked Hydrogels. <i>Processes</i> , 2013, 1, 153-166.	2.8	22
36	Photodegradable Iron(III) Cross-Linked Alginate Gels. <i>Biomacromolecules</i> , 2012, 13, 2465-2471.	5.4	145

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37	Electrochemically Controlled Drug-Mimicking Protein Release from Iron-Alginate Thin-Films Associated with an Electrode. ACS Applied Materials & Interfaces, 2012, 4, 466-475.	8.0	124
38	Synthesis of Enantiomerically Pure (<i>S</i>)-Methanocarbaribo Uracil Nucleoside Derivatives for Use as Antiviral Agents and P2Y Receptor Ligands. Journal of Organic Chemistry, 2008, 73, 8085-8088.	3.2	14