

Ljiljana Fruk

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,484
citations

201575

27
h-index

223716

46
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86
all docs

86
docs citations

86
times ranked

3285
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics and Mechanism of In Situ Metallization of Bulk DNA Films. <i>Nanoscale Research Letters</i> , 2022, 17, 18.	3.1	2
2	Size-tuneable and immunocompatible polymer nanocarriers for drug delivery in pancreatic cancer. <i>Nanoscale</i> , 2022, 14, 6656-6669.	2.8	5
3	The future of early cancer detection. <i>Nature Medicine</i> , 2022, 28, 666-677.	15.2	92
4	Tuning riboflavin derivatives for photodynamic inactivation of pathogens. <i>Scientific Reports</i> , 2022, 12, 6580.	1.6	11
5	A guide to assessing cellular senescence <i>in vitro</i> and <i>in vivo</i> . <i>FEBS Journal</i> , 2021, 288, 56-80.	2.2	251
6	Biopolymer-based Carriers for DNA Vaccine Design. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13225-13243.	7.2	35
7	Biopolymer-based Carriers for DNA Vaccine Design. <i>Angewandte Chemie</i> , 2021, 133, 13333-13351.	1.6	5
8	Green, scalable, low cost and reproducible flow synthesis of biocompatible PEG-functionalized iron oxide nanoparticles. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 1961-1973.	1.9	12
9	Polyglycerol-based hydrogels and nanogels: from synthesis to applications. <i>Future Medicinal Chemistry</i> , 2021, 13, 419-438.	1.1	9
10	Biofunctionalised bacterial cellulose scaffold supports the patterning and expansion of human embryonic stem cell-derived dopaminergic progenitor cells. <i>Stem Cell Research and Therapy</i> , 2021, 12, 574.	2.4	3
11	Light-driven assembly of biocompatible fluorescent chitosan hydrogels with self-healing ability. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9804-9811.	2.9	18
12	Hetero-Diels-Alder Cycloaddition with RAFT Polymers as Bioconjugation Platform. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19951-19955.	7.2	13
13	Hetero-Diels-Alder Cycloaddition mit RAFT-Polymeren als Biokonjugationsplattform. <i>Angewandte Chemie</i> , 2020, 132, 20123-20128.	1.6	0
14	Non-ionic small amphiphile based nanostructures for biomedical applications. <i>RSC Advances</i> , 2020, 10, 42098-42115.	1.7	25
15	Flavin-Conjugated Iron Oxide Nanoparticles as Enzyme-Inspired Photocatalysts for Azo Dye Degradation. <i>Catalysts</i> , 2020, 10, 324.	1.6	10
16	Galacto-conjugation of Navitoclax as an efficient strategy to increase senolytic specificity and reduce platelet toxicity. <i>Aging Cell</i> , 2020, 19, e13142.	3.0	131
17	Iron delivery from liquid-core hydrogels within a therapeutic nipple shield. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 131, 119-126.	1.9	6
18	Enzyme-inspired flavin-polydopamine as a biocompatible nanoparticle photocatalyst. <i>Nanoscale Horizons</i> , 2019, 4, 1318-1325.	4.1	7

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19	Flavin Conjugated Polydopamine Nanoparticles Displaying Light-Driven Monooxygenase Activity. <i>Frontiers in Chemistry</i> , 2019, 7, 278.	1.8	11
20	Zinc delivery from non-woven fibres within a therapeutic nipple shield. <i>International Journal of Pharmaceutics</i> , 2018, 537, 290-299.	2.6	4
21	Photo-induced Click Chemistry for DNA Surface Structuring by Direct Laser Writing. <i>Chemistry - A European Journal</i> , 2017, 23, 4990-4994.	1.7	14
22	Fluorescence excitation by enhanced plasmon upconversion under continuous wave illumination. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2016, 21, 32-43.	1.0	4
23	Click Crosslinked Chitosan/Gold Nanocomposite Hydrogels. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1295-1300.	1.7	22
24	Design of broadband SERS substrates by the laser-induced aggregation of gold nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6152-6159.	2.7	13
25	Designing hydrogel nanocomposites using TiO ₂ as clickable cross-linkers. <i>Journal of Materials Science</i> , 2016, 51, 5073-5081.	1.7	13
26	Photo-induced chemistry for the design of oligonucleotide conjugates and surfaces. <i>Journal of Materials Chemistry B</i> , 2016, 4, 442-449.	2.9	5
27	Optically controlled multiple switching operations of DNA biopolymer devices. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	10
28	A Self-reporting Tetrazole-based Linker for the Biofunctionalization of Gold Nanorods. <i>Chemistry - A European Journal</i> , 2015, 21, 14309-14313.	1.7	21
29	Plasmon resonance tuning using DNA origami actuation. <i>Chemical Communications</i> , 2015, 51, 4789-4792.	2.2	22
30	Ligand-Dependent Nanoparticle Clustering within Lipid Membranes Induced by Surrounding Medium. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5208-5219.	1.2	15
31	Biocompatible Hydrogel Nanocomposite with Covalently Embedded Silver Nanoparticles. <i>Biomacromolecules</i> , 2015, 16, 1301-1310.	2.6	109
32	Detection of DNA Hybridization by Methylene Blue Electrochemistry at Activated Nanoelectrode Ensembles. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3437-3442.	0.9	26
33	Photo-induced surface encoding of gold nanoparticles. <i>Chemical Communications</i> , 2015, 51, 3363-3366.	2.2	13
34	A DNA-based nano-immunoassay for the label-free detection of glial fibrillary acidic protein in multicell lysates. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 293-300.	1.7	19
35	Conjugated Polymer-Fullerene Covalent Hybrids via Ambient Conditions Diels-Alder Ligation. <i>Small</i> , 2014, 10, 3091-3098.	5.2	16
36	Coregulator Control of Androgen Receptor Action by a Novel Nuclear Receptor-binding Motif. <i>Journal of Biological Chemistry</i> , 2014, 289, 8839-8851.	1.6	46

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37	Enhanced Photocatalytic Activity of Au/TiO ₂ Nanocomposite Prepared Using Bifunctional Bridging Linker. <i>Advanced Functional Materials</i> , 2014, 24, 907-915.	7.8	39
38	DNA from natural sources in design of functional devices. <i>Methods</i> , 2014, 67, 105-115.	1.9	6
39	Multifunctional linker for orthogonal decoration of gold nanoparticles with DNA and protein. <i>RSC Advances</i> , 2014, 4, 17980.	1.7	6
40	Light-induced modification of silver nanoparticles with functional polymers. <i>Chemical Communications</i> , 2014, 50, 4430-4433.	2.2	18
41	Nanostructured Porous Si Optical Biosensors: Effect of Thermal Oxidation on Their Performance and Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16049-16055.	4.0	32
42	DNA as Nanostructuring Element for Design of Functional Devices. <i>Advances in Atom and Single Molecule Machines</i> , 2014, , 85-121.	0.0	1
43	Light induced DNA-protein conjugation. <i>Chemical Communications</i> , 2013, 49, 8626.	2.2	13
44	Picking up the Pieces: A Generic Porous Si Biosensor for Probing the Proteolytic Products of Enzymes. <i>Analytical Chemistry</i> , 2013, 85, 1951-1956.	3.2	37
45	The power of light: photosensitive tools for chemical biology. <i>Molecular BioSystems</i> , 2013, 9, 565-570.	2.9	16
46	Functionalization of maleimide-coated silver nanoparticles through Diels-Alder cycloaddition. <i>RSC Advances</i> , 2013, 3, 1709-1713.	1.7	8
47	A facile one-pot route to poly(carboxybetaine acrylamide) functionalized SWCNTs. <i>Chemical Communications</i> , 2013, 49, 6734.	2.2	17
48	Clickable Tyrosine Binding Bifunctional Linkers for Preparation of DNA-Protein Conjugates. <i>Bioconjugate Chemistry</i> , 2013, 24, 1094-1101.	1.8	44
49	Functionalized ensembles of nanoelectrodes as affinity biosensors for DNA hybridization detection. <i>Biosensors and Bioelectronics</i> , 2013, 40, 265-270.	5.3	43
50	Tuning nanopore surface polarity and rectification properties through enzymatic hydrolysis inside nanoconfined geometries. <i>Chemical Communications</i> , 2013, 49, 8770.	2.2	19
51	Reactive oxygen species production by catechol stabilized copper nanoparticles. <i>Nanoscale</i> , 2013, 5, 11610.	2.8	15
52	Nernst-Planck model of photo-triggered, tunable ionic transport through nanopores functionalized with lysine chains. <i>Journal of Chemical Physics</i> , 2013, 138, 034709.	1.2	21
53	Biosensor based on DNA directed immobilization of enzymes onto optically sensitive porous Si. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1569, 195-200.	0.1	1
54	SNAP-tag as a Tool for Surface Immobilization. <i>Current Pharmaceutical Design</i> , 2013, 19, 5443-5448.	0.9	28

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55	Phototriggered Production of Reactive Oxygen Species by TiO ₂ Nanospheres and Rods. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-9.	1.5	16
56	Phototriggered growth of crystalline Au structures in the presence of a DNA-surfactant complex. <i>Nanoscale</i> , 2012, 4, 5585.	2.8	5
57	DNA-directed immobilization of horseradish peroxidase onto porous SiO ₂ optical transducers. <i>Nanoscale Research Letters</i> , 2012, 7, 443.	3.1	25
58	Bifunctional catechol based linkers for modification of TiO ₂ surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 735-741.	6.7	34
59	Functional DNA biopolymers and nanocomposite for optoelectronic applications. <i>Optical Materials</i> , 2012, 34, 1208-1213.	1.7	28
60	Optical Gating of Photosensitive Synthetic Ion Channels. <i>Advanced Functional Materials</i> , 2012, 22, 390-396.	7.8	65
61	Nanoparticles and Efficiency Enhancement in Plasmonic Solar Cells. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2012, 7, 322-327.	0.1	8
62	Controlled Immobilization of Proteins at the Nanoscale for Highly Sensitive Immuno-Assay. <i>Biophysical Journal</i> , 2011, 100, 161a.	0.2	1
63	Bimetallic Copper-Heme-Protein-DNA Hybrid Catalyst for Diels Alder Reaction. <i>Croatica Chemica Acta</i> , 2011, 84, 269-275.	0.1	4
64	Photoinduced write-once read-many-times memory device based on DNA biopolymer nanocomposite. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	76
65	Enhanced light emission from blue organic light-emitting devices with DNA biopolymer. , 2011, , .		1
66	Bioconjugation of CdSe/ZnS nanoparticles with SNAP tagged proteins. <i>Chemical Communications</i> , 2011, 47, 10671.	2.2	25
67	Apoenzyme Reconstitution as a Chemical Tool for Structural Enzymology and Biotechnology. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1550-1574.	7.2	116
68	Surface-enhanced Raman scattering as a tool to probe cytochrome P450-catalysed substrate oxidation. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1797-1801.	1.9	7
69	Addressable DNA-surfactant Myoglobin Photocatalysis. <i>Chemistry - an Asian Journal</i> , 2009, 4, 1064-1069.	1.7	19
70	Analysis of heme-reconstitution of apoenzymes by means of surface plasmon resonance. <i>Chemical Communications</i> , 2009, , 230-232.	2.2	35
71	Toward Multiprotein Nanoarrays Using Nanografting and DNA Directed Immobilization of Proteins. <i>Nano Letters</i> , 2009, 9, 2614-2618.	4.5	83
72	Site-specific labeling of DNA-protein conjugates by means of expressed protein ligation. <i>Chemical Communications</i> , 2007, , 353-355.	2.2	13

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73	Light-Induced Triggering of Peroxidase Activity Using Quantum Dots. <i>ChemBioChem</i> , 2007, 8, 2195-2198.	1.3	61
74	DNA-Directed Immobilization of Horseradish Peroxidase-DNA Conjugates on Microelectrode Arrays: Towards Electrochemical Screening of Enzyme Libraries. <i>Chemistry - A European Journal</i> , 2007, 13, 5223-5231.	1.7	70
75	A new approach for DNA detection by SERRS. <i>Faraday Discussions</i> , 2006, 132, 261-268.	1.6	57
76	Kinetic Analysis of Semisynthetic Peroxidase Enzymes Containing a Covalent DNA-Heme Adduct as the Cofactor. <i>Chemistry - A European Journal</i> , 2006, 12, 7448-7457.	1.7	48
77	Covalent Hemin-DNA Adducts for Generating a Novel Class of Artificial Heme Enzymes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2603-2606.	7.2	115
78	SERRS dyes : Part 3. Synthesis of reactive benzotriazole azo dyes for surface enhanced resonance Raman scattering. <i>Analyst, The</i> , 2004, 129, 975.	1.7	21
79	The Electronic Effects on the Formation of N-Arylmaleimides and isomaleimides. <i>Heterocycles</i> , 2003, 60, 2305.	0.4	13
80	Detection of DNA probes using Diels Alder cycloaddition and SERRS. <i>Analyst, The</i> , 2003, 128, 692.	1.7	29
81	A new approach to oligonucleotide labelling using Diels-Alder cycloadditions and detection by SERRS. <i>Chemical Communications</i> , 2002, , 2100-2101.	2.2	42
82	Internal labeling of oligonucleotide probes by Diels-Alder cycloaddition. <i>Tetrahedron Letters</i> , 2002, 43, 4785-4788.	0.7	32