

Federico Iacovelli

List of Publications by Citations

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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.

48 papers	661 citations	15 h-index	23 g-index
56 ext. papers	913 ext. citations	5.7 avg, IF	4.05 L-index

#	Paper	IF	Citations
48	Temperature-controlled encapsulation and release of an active enzyme in the cavity of a self-assembled DNA nanocage. <i>ACS Nano</i> , 2013 , 7, 9724-34	16.7	113
47	Selective targeting and degradation of doxorubicin-loaded folate-functionalized DNA nanocages. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 1181-1190	6	44
46	Potential of Curcumin in Skin Disorders. <i>Nutrients</i> , 2019 , 11,	6.7	41
45	Targeting the SARS-CoV-2 spike glycoprotein prefusion conformation: virtual screening and molecular dynamics simulations applied to the identification of potential fusion inhibitors. <i>Virus Research</i> , 2020 , 286, 198068	6.4	32
44	Cellular uptake of covalent and non-covalent DNA nanostructures with different sizes and geometries. <i>Nanoscale</i> , 2019 , 11, 10808-10818	7.7	27
43	Adipocyte metabolism is improved by TNF receptor-targeting small RNAs identified from dried nuts. <i>Communications Biology</i> , 2019 , 2, 317	6.7	25
42	Molecular mechanism of statin-mediated LOX-1 inhibition. <i>Cell Cycle</i> , 2015 , 14, 1583-95	4.7	24
41	Frataxin deficiency induces lipid accumulation and affects thermogenesis in brown adipose tissue. <i>Cell Death and Disease</i> , 2020 , 11, 51	9.8	23
40	DNA hairpins promote temperature controlled cargo encapsulation in a truncated octahedral nanocage structure family. <i>Nanoscale</i> , 2016 , 8, 13333-41	7.7	23
39	Structural insights into the multi-determinant aggregation of TDP-43 in motor neuron-like cells. <i>Neurobiology of Disease</i> , 2016 , 94, 63-72	7.5	22
38	Lactoferrin Against SARS-CoV-2: and Evidences. <i>Frontiers in Pharmacology</i> , 2021 , 12, 666600	5.6	21
37	Quercetin pentaacetate inhibits in vitro human respiratory syncytial virus adhesion. <i>Virus Research</i> , 2020 , 276, 197805	6.4	20
36	Simulative and Experimental Characterization of a pH-Dependent Clamp-like DNA Triple-Helix Nanoswitch. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5321-5329	16.4	19
35	Ru/Fe bimetallic complexes: Synthesis, characterization, cytotoxicity and study of their interactions with DNA/HSA and human topoisomerase IB. <i>Archives of Biochemistry and Biophysics</i> , 2017 , 636, 28-41	4.1	16
34	A Simple and Fast Semiautomatic Procedure for the Atomistic Modeling of Complex DNA Polyhedra. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 941-9	6.1	16
33	Simulative and experimental investigation on the cleavage site that generates the soluble human LOX-1. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 540, 9-18	4.1	14
32	Influence of the single-strand linker composition on the structural/dynamical properties of a truncated octahedral DNA nano-cage family. <i>Biopolymers</i> , 2014 , 101, 992-9	2.2	12

31	Engineering a responsive DNA triple helix into an octahedral DNA nanostructure for a reversible opening/closing switching mechanism: a computational and experimental integrated study. <i>Nucleic Acids Research</i> , 2018 , 46, 9951-9959	20.1	12
30	Comparative simulative analysis of single and double stranded truncated octahedral DNA nanocages. <i>RSC Advances</i> , 2016 , 6, 35160-35166	3.7	11
29	Luteolin-7- β -D-Glucoside Inhibits Cellular Energy Production Interacting with HEK2 in Keratinocytes. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	10
28	SSADH deficiency in an Italian family: a novel ALDH5A1 gene mutation affecting the succinic semialdehyde substrate binding site. <i>Metabolic Brain Disease</i> , 2017 , 32, 1383-1388	3.9	10
27	Lactoferrin as Antiviral Treatment in COVID-19 Management: Preliminary Evidence. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	10
26	Antifungal activity of L. (Sapindaceae) against occurs through molecular interaction with fungal Hsp90. <i>Drug Design, Development and Therapy</i> , 2018 , 12, 2185-2193	4.4	10
25	Lactoferrin as potential supplementary nutraceutical agent in COVID-19 patients: in vitro and in vivo preliminary evidences		9
24	Polymorphism in Mitochondrial Coding Regions of Mediterranean Loggerhead Turtles: Evolutionary Relevance and Structural Effects. <i>Physiological and Biochemical Zoology</i> , 2016 , 89, 473-486	2	8
23	Design, selection and optimization of an anti-TRAIL-R2/anti-CD3 bispecific antibody able to educate T cells to recognize and destroy cancer cells. <i>MAbs</i> , 2018 , 10, 1084-1097	6.6	8
22	Succinic semialdehyde dehydrogenase deficiency: The combination of a novel ALDH5A1 gene mutation and a missense SNP strongly affects SSADH enzyme activity and stability. <i>Molecular Genetics and Metabolism</i> , 2018 , 124, 210-215	3.7	8
21	Intrinsic Dynamics Analysis of a DNA Octahedron by Elastic Network Model. <i>Molecules</i> , 2017 , 22,	4.8	7
20	AS1411 Aptamer Linked to DNA Nanostructures Diverts Its Traffic Inside Cancer Cells and Improves Its Therapeutic Efficacy. <i>Pharmaceutics</i> , 2021 , 13,	6.4	7
19	Decoding the conformation-linked functional properties of nucleic acids by the use of computational tools. <i>FEBS Journal</i> , 2015 , 282, 3298-310	5.7	6
18	Antifungal Effect of All- Retinoic Acid against <i>Aspergillus fumigatus</i> and in a Pulmonary Aspergillosis Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65,	5.9	6
17	Combined and selective miR-21 silencing and doxorubicin delivery in cancer cells using tailored DNA nanostructures. <i>Cell Death and Disease</i> , 2021 , 12, 7	9.8	6
16	Virtual Screening for the Development of Dual-Inhibitors Targeting Topoisomerase IB and Tyrosyl-DNA Phosphodiesterase 1. <i>Current Drug Targets</i> , 2017 , 18, 544-555	3	5
15	A structural modeling approach for the understanding of initiation and elongation of ALS-linked superoxide dismutase fibrils. <i>Journal of Molecular Modeling</i> , 2013 , 19, 3695-704	2	4
14	In Silico and In Cell Analysis of Openable DNA Nanocages for miRNA Silencing. <i>International Journal of Molecular Sciences</i> , 2019 , 21,	6.3	4

13	Natural Compounds as Therapeutic Agents: The Case of Human Topoisomerase IB. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
12	A molecular dynamics simulation study decodes the early stage of the disassembly process abolishing the human SAMHD1 function. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 497-505	4.2	3
11	Plant microRNAs from Regulate Immune Response and HIV Infection. <i>Frontiers in Pharmacology</i> , 2020 , 11, 620038	5.6	3
10	Probing the Functional Topology of a pH-Dependent Triple Helix DNA Nanoswitch Family through Gaussian Accelerated MD Simulation. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 2746-2752	6.1	2
9	Topoisomerase IB: a relaxing enzyme for stressed DNA. 2020 , 3, 18-25		2
8	Dynamical Behavior of the Human Ferroportin Homologue from : Insight into the Ligand Recognition Mechanism. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
7	Antimicrobial properties of the medicinal plant <i>Cardiospermum halicacabum</i> L: new evidence and future perspectives. <i>European Review for Medical and Pharmacological Sciences</i> , 2019 , 23, 7135-7143	2.9	2
6	Multiple molecular dynamics simulations of human LOX-1 and Trp150Ala mutant reveal the structural determinants causing the full deactivation of the receptor. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017 , 85, 1902-1912	4.2	1
5	Reconstructing the Free Energy Profiles Describing the Switching Mechanism of a pH-Dependent DNA Nanodevice from ABMD Simulations. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4052	2.6	1
4	Genome-Wide Identification and Bioinformatics Characterization of Superoxide Dismutases in the Desiccation-Tolerant Cyanobacterium sp. CCME 029. <i>Frontiers in Microbiology</i> , 2021 , 12, 660050	5.7	1
3	In Vitro and In Silico Characterization of an Antimalarial Compound with Antitumor Activity Targeting Human DNA Topoisomerase IB. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
2	Analysis of Four New <i>Enterococcus faecalis</i> Phages and Modeling of a Hyaluronidase Catalytic Domain from Saphexavirus. <i>Phage</i> , 2021 , 2, 131-141	1.8	1
1	Structural modeling of altered CLCN1 conformation following a novel mutation in a patient affected by autosomal dominant myotonia congenita (Thomsen disease). <i>Archives Italiennes De Biologie</i> , 2017 , 155, 118-130	1.1	