

# Yurii I Prylutsky

## 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.

101 papers	1,423 citations	22 h-index	32 g-index
109 ext. papers	1,762 ext. citations	3.3 avg, IF	4.52 L-index

#	Paper	IF	Citations
101	A Novel Water-Soluble C60 Fullerene-Based Nano-Platform Enhances Efficiency of Anticancer Chemotherapy <b>2022</b> , 59-93		
100	Nanocomplex of Berberine with C Fullerene Is a Potent Suppressor of Lewis Lung Carcinoma Cells Invasion In Vitro and Metastatic Activity In Vivo. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
99	A New Water-Soluble Thermosensitive Star-Like Copolymer as a Promising Carrier of the Chemotherapeutic Drug Doxorubicin. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
98	Design, characterization and mechanical properties of new Na <sup>+</sup> , CO <sub>3</sub> <sup>2-</sup> apatite/alginate/C60 fullerene hybrid biocomposites. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 422-429	2.2	2
97	Antitumor efficiency of the natural alkaloid berberine complexed with C60 fullerene in Lewis lung carcinoma in vitro and in vivo. <i>Cancer Nanotechnology</i> , <b>2021</b> , 12,	7.9	6
96	C fullerene against SARS-CoV-2 coronavirus: an in silico insight. <i>Scientific Reports</i> , <b>2021</b> , 11, 17748	4.9	3
95	Anticoronavirus Activity of Water-Soluble Pristine C Fullerenes: In Vitro and In Silico Screenings.. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1352, 159-172	3.6	1
94	Evaluation of the Biocompatibility of Water-Soluble Pristine C60 Fullerenes in Rabbit. <i>BioNanoScience</i> , <b>2020</b> , 10, 721-730	3.4	7
93	Water-Soluble Pristine C Fullerenes Inhibit Liver Fibrotic Alteration and Prevent Liver Cirrhosis in Rats. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 8061246	6.7	9
92	Fractal C60 fullerene aggregation: Equilibrium thermodynamics approach. <i>Chemical Physics Letters</i> , <b>2020</b> , 742, 137161	2.5	5
91	Impedance characterization and microwave permittivity of multi-walled carbon nanotubes/BaTiO <sub>3</sub> /epoxy composites. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	2
90	New nanostructured apatite-type (Na <sup>+</sup> ,Zn <sup>2+</sup> ,CO <sub>3</sub> <sup>2-</sup> )-doped calcium phosphates: Preparation, mechanical properties and antibacterial activity. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1222, 128932	3.4	8
89	C Fullerene Governs Doxorubicin Effect on Metabolic Profile of Rat Microglial Cells In Vitro. <i>Molecular Pharmaceutics</i> , <b>2020</b> , 17, 3622-3632	5.6	3
88	Water-Soluble Pristine C Fullerene Inhibits Liver Alterations Associated with Hepatocellular Carcinoma in Rat. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	1
87	Effects of Pristine C Fullerenes on Liver and Pancreas in Naphthylisothiocyanate-Induced Cholangitis. <i>Digestive Diseases and Sciences</i> , <b>2020</b> , 65, 215-224	4	7
86	C60 fullerenes increase the intensity of rotational movements in non-anesthetized hemiparkinsonic rats. <i>Acta Neurobiologiae Experimentalis</i> , <b>2020</b> , 80, 32-37	1	2
85	The strain- and impurity-dependent electron states and catalytic activity of graphene in a static magnetic field. <i>Optical Materials</i> , <b>2019</b> , 96, 109284	3.3	6

84	In vitro and in vivo toxicity of pristine C60 fullerene aqueous colloid solution. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2019</b> , 27, 715-728	1.8	41
83	Toxicity of C fullerene-cisplatin nanocomplex against Lewis lung carcinoma cells. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 1213-1226	5.8	15
82	Defect-Pattern-Induced Fingerprints in the Electron Density of States of Strained Graphene Layers: Diffraction and Simulation Methods. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1800406	1.3	18
81	C fullerenes selectively inhibit BK but not K channels in pulmonary artery smooth muscle cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2019</b> , 19, 1-11	6	7
80	General up-scaled model of ligand binding with C60 fullerene clusters in aqueous solution. <i>Chemical Physics Letters</i> , <b>2019</b> , 721, 22-26	2.5	8
79	A Novel Nanoconjugate of Landomycin A with C Fullerene for Cancer Targeted Therapy: Studies. <i>Cellular and Molecular Bioengineering</i> , <b>2019</b> , 12, 41-51	3.9	12
78	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 054302	2.5	27
77	The Effect of Ultraviolet Irradiation on the Electro-transport Properties of Carbon Nanotubes. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 145-163	0.2	
76	In vitro study of the anticancer activity of various doxorubicin-containing dispersions. <i>BiolImpacts</i> , <b>2019</b> , 9, 57-63	3.5	13
75	The Impact of Surface Functionalization on the Biophysical Properties of Silver Nanoparticles. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	21
74	Complexation with C Fullerene Increases Doxorubicin Efficiency against Leukemic Cells In Vitro. <i>Nanoscale Research Letters</i> , <b>2019</b> , 14, 61	5	18
73	Synergy of Chemo- and Photodynamic Therapies with C Fullerene-Doxorubicin Nanocomplex. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	18
72	The Impact of Uniaxial Strain and Defect Pattern on Magnetoelectronic and Transport Properties of Graphene <b>2019</b> , 451-502		1
71	C Fullerene as an Effective Nanoplatfrom of Alkaloid Berberine Delivery into Leukemic Cells. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	21
70	Novel Nanostructured Na <sup>+</sup> , Cu <sup>2+</sup> (Zn <sup>2+</sup> ),CO <sub>3</sub> 2HAP/Alginate Composite Scaffold: Fabrication, Characterization and Mechanical Properties. <i>ChemistrySelect</i> , <b>2019</b> , 4, 11435-11440	1.8	1
69	Water-soluble pristine C fullerene attenuates acetaminophen-induced liver injury. <i>BiolImpacts</i> , <b>2019</b> , 9, 227-237	3.5	8
68	Effect of uniaxial stress on the electrochemical properties of graphene with point defects. <i>Applied Surface Science</i> , <b>2018</b> , 442, 185-188	6.7	7
67	Does C fullerene act as a transporter of small aromatic molecules?. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 164, 134-143	6	25

66	Self-Organization of Pristine C60 Fullerene and its Complexes with Chemotherapy Drugs in Aqueous Solution as Promising Anticancer Agents. <i>Springer Proceedings in Physics</i> , <b>2018</b> , 3-22	0.2	5
65	Magnetoresistance of graphite intercalated with cobalt. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 716-726	4.3	8
64	Single-walled carbon nanotubes affect the expression of genes associated with immune response in normal human astrocytes. <i>Toxicology in Vitro</i> , <b>2018</b> , 52, 122-130	3.6	13
63	C fullerenes disrupt cellular signalling leading to TRPC4 and TRPC6 channels opening by the activation of muscarinic receptors and G-proteins in small intestinal smooth muscles. <i>Cellular Signalling</i> , <b>2018</b> , 43, 40-46	4.9	9
62	Effect of C fullerene nanoparticles on the diet-induced obesity in rats. <i>International Journal of Obesity</i> , <b>2018</b> , 42, 1987-1998	5.5	25
61	C Fullerene Prevents Restraint Stress-Induced Oxidative Disorders in Rat Tissues: Possible Involvement of the Nrf2/ARE-Antioxidant Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2018</b> , 2018, 2518676	6.7	32
60	Development of Industry Oriented Curricular on Cyber Physical Systems for Belarusian and Ukrainian Universities <b>2018</b> ,		5
59	C fullerene and its nanocomplexes with anticancer drugs modulate circulating phagocyte functions and dramatically increase ROS generation in transformed monocytes. <i>Cancer Nanotechnology</i> , <b>2018</b> , 9, 8	7.9	17
58	Immobilization of cesium from aqueous solution using nanoparticles of synthetic calcium phosphates. <i>Chemistry Central Journal</i> , <b>2018</b> , 12, 87		2
57	C Fullerenes Diminish Muscle Fatigue in Rats Comparable to -acetylcysteine or Alanine. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 517	4.6	30
56	Synthesis and characterization of hydroxyapatite-alginate nanostructured composites for the controlled drug release. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 217, 228-234	4.4	23
55	The Effectiveness of Antitumor Vaccine Enriched with a Heat Shock Protein 70. <i>Heat Shock Proteins</i> , <b>2018</b> , 325-345	0.2	
54	Strain- and Adsorption-Dependent Electronic States and Transport or Localization in Graphene. <i>Springer Proceedings in Physics</i> , <b>2018</b> , 25-41	0.2	4
53	Magnetic anisotropy of the graphite nanoplatelet-epoxy and MWCNT-epoxy composites with aligned barium ferrite filler. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 5345-5358	4.3	90
52	Determination of the equilibrium constant of C fullerene binding with drug molecules. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 6777-6784	3.6	10
51	Mutual influence of uniaxial tensile strain and point defect pattern on electronic states in graphene. <i>European Physical Journal B</i> , <b>2017</b> , 90, 1	1.2	15
50	C Fullerene as Promising Therapeutic Agent for the Prevention and Correction of Skeletal Muscle Functioning at Ischemic Injury. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 115	5	17
49	C60 fullerene enhances cisplatin anticancer activity and overcomes tumor cell drug resistance. <i>Nano Research</i> , <b>2017</b> , 10, 652-671	10	51

48	A nanocomplex of C fullerene with cisplatin: design, characterization and toxicity. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 1494-1501	3	32
47	Effect of weak impurities on conductivity of uniaxially strained graphene <b>2017</b> ,		2
46	Water-Soluble Nanoscale C60 Fullerenes as Effective Therapeutic Means for Prevention and Correction of Ischemic Injury in Skeletal Muscle. <i>International Journal of Physiology and Pathophysiology</i> , <b>2017</b> , 8, 177-193		2
45	Interaction of C60 fullerene complexed to doxorubicin with model bilipid membranes and its uptake by HeLa cells. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 398-403	8.3	27
44	Chronic Alcoholization: Effect on Musculoskeletal System and Remedial Action of C60 Fullerenes. <i>International Journal of Physiology and Pathophysiology</i> , <b>2016</b> , 7, 273-284		
43	Guest-host Intercalate of double-walled carbon nanotube with tricarbonyl (cyclopentadienyl)manganese. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2016</b> , 47, 203-207	0.9	4
42	Single-walled carbon nanotubes affect the expression of the CCND2 gene in human U87 glioma cells. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2016</b> , 47, 180-188	0.9	5
41	Single-walled carbon nanotubes modulate cardiovascular control in rats. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2016</b> , 47, 208-215	0.9	6
40	Biophysical characterization of the complexation of C60 fullerene with doxorubicin in a prokaryotic model. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2016</b> , 47, 92-97	0.9	11
39	Study of biocompatibility effect of nanocarbon particles on various cell types in vitro. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2016</b> , 47, 216-221	0.9	32
38	Clustering of hydrochloric acid on the surface of C60/C70 fullerite and its composites with nanosilica. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2016</b> , 47, 172-179	0.9	1
37	Combined action of C60 fullerene with dimethyl-N-(benzoyl)amidophosphate or dimethyl-N-(phenylsulfonyl)amidophosphate on leukemia L1210 cells in silico and in vitro. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2016</b> , 47, 98-104	0.9	7
36	Interaction of C60 fullerene complexed to cisplatin with model bilipid membranes and its uptake by HeLa cells. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2016</b> , 47, 105-111	0.9	1
35	Conformational, IR spectroscopic and electronic properties of conium alkaloids and their adducts with C60 fullerene. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1118, 167-171	3.4	2
34	C60 fullerene affects elastic properties and osmoregulation reactions of human lymphocytes. <i>European Biophysics Journal</i> , <b>2015</b> , 44, 493-8	1.9	4
33	Structural self-organization of C60 and cisplatin in physiological solution. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 26084-92	3.6	38
32	Synthesis, Characterization and EPR Investigation of Induced Defects of Nanoparticles of (MI, CO3)-Containing Apatites (MI [Na, K). <i>Solid State Phenomena</i> , <b>2015</b> , 230, 133-139	0.4	2
31	Complex of C60 Fullerene with Doxorubicin as a Promising Agent in Antitumor Therapy. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 499	5	49

30	Structure of Biocompatible Coatings Produced from Hydroxyapatite Nanoparticles by Detonation Spraying. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 464	5	22
29	Preparation, Characterization, and Thermal Transformation of Poorly Crystalline Sodium- and Carbonate-Substituted Calcium Phosphate. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 622-629	3.3	17
28	Evidence of entropically driven C60 fullerene aggregation in aqueous solution. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 104909	3.9	22
27	Interceptor effect of C60 fullerene on the in vitro action of aromatic drug molecules. <i>European Biophysics Journal</i> , <b>2014</b> , 43, 265-76	1.9	33
26	Complexation of aromatic drugs with single-walled carbon nanotubes. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	12
25	Protective Effect of Water-Soluble Pristine C60 Fullerene in Ischemia-Reperfusion Injury of Skeletal Muscle. <i>International Journal of Physiology and Pathophysiology</i> , <b>2014</b> , 5, 97-110		9
24	C60 fullerene as synergistic agent in tumor-inhibitory Doxorubicin treatment. <i>Drugs in R and D</i> , <b>2014</b> , 14, 333-40	3.4	63
23	Comparative study of membranotropic action of single- and multi-walled carbon nanotubes. <i>Journal of Bioscience and Bioengineering</i> , <b>2013</b> , 115, 674-9	3.3	16
22	Complexation of C60 fullerene with aromatic drugs. <i>ChemPhysChem</i> , <b>2013</b> , 14, 568-78	3.2	61
21	Influence of impurity defects on vibrational and electronic structure of graphene. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2013</b> , 44, 183-187	0.9	0
20	Magnetic properties of N-doped multi-walled carbon nanotubes. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2013</b> , 44, 136-138	0.9	2
19	Magnetoresistance of multi-walled carbon nanotubes modified with iron. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2013</b> , 44, 161-166	0.9	5
18	Impact of single-walled carbon nanotubes on the medullary neurons in spontaneously hypertensive rats. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2013</b> , 44, 171-175	0.9	8
17	Hydration properties of nanosilica, modified by adsorbed C60 fullerene. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2013</b> , 44, 244-248	0.9	1
16	Effect of multi-walled iron-filled carbon nanotubes on ATPase activity and superprecipitation of natural actomyosin. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2013</b> , 44, 103-106	0.9	1
15	C60 fullerene aggregation in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 9351-60	3.6	63
14	Thermopower of Nanocarbon Materials with Different Structure and Phase Composition. <i>Journal of Materials Science Research</i> , <b>2012</b> , 1,	1	1
13	Impact of Carbon Nanotubes on ATPase Activity and Superprecipitation Reaction of Natural Actomyosin. <i>International Journal of Physiology and Pathophysiology</i> , <b>2012</b> , 3, 341-347		4

12	Thermal diffusivity of nanocarbon composites. <i>Polymer Composites</i> , <b>2011</b> , 32, 14-17	3	1
11	Abnormal Electron Transport in Graphite Intercalation Compounds with Iron. <i>Molecular Crystals and Liquid Crystals</i> , <b>2011</b> , 535, 64-73	0.5	13
10	Radiation modification of polyvinyl chloride nanocomposites with multi-walled carbon nanotubes. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2010</b> , 41, 675-681	0.9	3
9	MODIFIED EXFOLIATED GRAPHITE AS A MATERIAL FOR SHIELDING AGAINST ELECTROMAGNETIC RADIATION. <i>International Journal of Nanoscience</i> , <b>2008</b> , 07, 263-268	0.6	8
8	Therapeutic Reactive Oxygen Generation. <i>Tumori</i> , <b>2008</b> , 94, 278-283	1.7	22
7	Magnetometric Studies of Catalyst Refuses in Nanocarbon Materials. <i>Nanoscale Research Letters</i> , <b>2008</b> , 3, 60-64	5	7
6	Therapeutic reactive oxygen generation. <i>Tumori</i> , <b>2008</b> , 94, 278-83	1.7	8
5	Electromagnetic losses in carbon-epoxy composites. <i>Materials Science and Engineering C</i> , <b>2007</b> , 27, 1007-1009	10.9	10
4	Study of C60 fullerenes and C60-containing composites cytotoxicity in vitro. <i>Materials Science and Engineering C</i> , <b>2007</b> , 27, 1121-1124	8.3	40
3	Monte Carlo simulation of intercalated carbon nanotubes. <i>Journal of Molecular Modeling</i> , <b>2007</b> , 13, 283-2	7	14
2	Structure of fullerene C60 in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , <b>2000</b> , 2, 1627-1629	3.6	43
1	Post-traumatic recovery of muscle soleus in rats is improved via synergistic effect of C60 fullerene and TRPM8 agonist menthol. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	1