Yurii I Prylutskyy

List of Publications by Citations

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	Magnetic anisotropy of the graphite nanoplatelet–epoxy and MWCNT–epoxy composites with aligned barium ferrite filler. *Journal of Materials Science*, **2017**, 52, 5345-5358	4.3	90
100	C60 fullerene as synergistic agent in tumor-inhibitory Doxorubicin treatment. *Drugs in R and D*, **2014**, 14, 333-40	3.4	63
99	C60 fullerene aggregation in aqueous solution. *Physical Chemistry Chemical Physics*, **2013**, 15, 9351-60	3.6	63
98	Complexation of C60 fullerene with aromatic drugs. *ChemPhysChem*, **2013**, 14, 568-78	3.2	61
97	C60 fullerene enhances cisplatin anticancer activity and overcomes tumor cell drug resistance. *Nano Research*, **2017**, 10, 652-671	10	51
96	Complex of C60 Fullerene with Doxorubicin as a Promising Agent in Antitumor Therapy. *Nanoscale Research Letters*, **2015**, 10, 499	5	49
95	Structure of fullerene C60 in aqueous solution. *Physical Chemistry Chemical Physics*, **2000**, 2, 1627-1629	3.6	43
94	In vitro and in vivo toxicity of pristine C60 fullerene aqueous colloid solution. *Fullerenes Nanotubes and Carbon Nanostructures*, **2019**, 27, 715-728	1.8	41
93	Study of C60 fullerenes and C60-containing composites cytotoxicity in vitro. *Materials Science and Engineering C*, **2007**, 27, 1121-1124	8.3	40
92	Structural self-organization of C60 and cisplatin in physiological solution. *Physical Chemistry Chemical Physics*, **2015**, 17, 26084-92	3.6	38
91	Interceptor effect of C60 fullerene on the in vitro action of aromatic drug molecules. *European Biophysics Journal*, **2014**, 43, 265-76	1.9	33
90	A nanocomplex of C fullerene with cisplatin: design, characterization and toxicity. *Beilstein Journal of Nanotechnology*, **2017**, 8, 1494-1501	3	32
89	Study of biocompatibility effect of nanocarbon particles on various cell types in vitro. *Materialwissenschaft Und Werkstofftechnik*, **2016**, 47, 216-221	0.9	32
88	C Fullerene Prevents Restraint Stress-Induced Oxidative Disorders in Rat Tissues: Possible Involvement of the Nrf2/ARE-Antioxidant Pathway. *Oxidative Medicine and Cellular Longevity*, **2018**, 2018, 2518676	6.7	32
87	C Fullerenes Diminish Muscle Fatigue in Rats Comparable to -acetylcysteine or -Alanine. *Frontiers in Physiology*, **2018**, 9, 517	4.6	30
86	Interaction of C60 fullerene complexed to doxorubicin with model bilipid membranes and its uptake by HeLa cells. *Materials Science and Engineering C*, **2016**, 59, 398-403	8.3	27
85	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. *Journal of Applied Physics*, **2019**, 126, 054302	2.5	27

84	Does C fullerene act as a transporter of small aromatic molecules?. *Colloids and Surfaces B: Biointerfaces*, **2018**, 164, 134-143	6	25
83	Effect of C fullerene nanoparticles on the diet-induced obesity in rats. *International Journal of Obesity*, **2018**, 42, 1987-1998	5.5	25
82	Synthesis and characterization of hydroxyapatite-alginate nanostructured composites for the controlled drug release. *Materials Chemistry and Physics*, **2018**, 217, 228-234	4.4	23
81	Evidence of entropically driven C60 fullerene aggregation in aqueous solution. *Journal of Chemical Physics*, **2014**, 140, 104909	3.9	22
80	Structure of Biocompatible Coatings Produced from Hydroxyapatite Nanoparticles by Detonation Spraying. *Nanoscale Research Letters*, **2015**, 10, 464	5	22
79	Therapeutic Reactive Oxygen Generation. *Tumori*, **2008**, 94, 278-283	1.7	22
78	The Impact of Surface Functionalization on the Biophysical Properties of Silver Nanoparticles. *Nanomaterials*, **2019**, 9,	5.4	21
77	C Fullerene as an Effective Nanoplatform of Alkaloid Berberine Delivery into Leukemic Cells. *Pharmaceutics*, **2019**, 11,	6.4	21
76	Defect-Pattern-Induced Fingerprints in the Electron Density of States of Strained Graphene Layers: Diffraction and Simulation Methods. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1800406	1.3	18
75	Complexation with C Fullerene Increases Doxorubicin Efficiency against Leukemic Cells In Vitro. *Nanoscale Research Letters*, **2019**, 14, 61	5	18
74	Synergy of Chemo- and Photodynamic Therapies with C Fullerene-Doxorubicin Nanocomplex. *Nanomaterials*, **2019**, 9,	5.4	18
73	C Fullerene as Promising Therapeutic Agent for the Prevention and Correction of Skeletal Muscle Functioning at Ischemic Injury. *Nanoscale Research Letters*, **2017**, 12, 115	5	17
72	Preparation, Characterization, and Thermal Transformation of Poorly Crystalline Sodium- and Carbonate-Substituted Calcium Phosphate. *European Journal of Inorganic Chemistry*, **2015**, 2015, 622-629	2.3	17
71	C fullerene and its nanocomplexes with anticancer drugs modulate circulating phagocyte functions and dramatically increase ROS generation in transformed monocytes. *Cancer Nanotechnology*, **2018**, 9, 8	7.9	17
70	Comparative study of membranotropic action of single- and multi-walled carbon nanotubes. *Journal of Bioscience and Bioengineering*, **2013**, 115, 674-9	3.3	16
69	Mutual influence of uniaxial tensile strain and point defect pattern on electronic states in graphene. *European Physical Journal B*, **2017**, 90, 1	1.2	15
68	Toxicity of C fullerene-cisplatin nanocomplex against Lewis lung carcinoma cells. *Archives of Toxicology*, **2019**, 93, 1213-1226	5.8	15
67	Monte Carlo simulation of intercalated carbon nanotubes. *Journal of Molecular Modeling*, **2007**, 13, 283-7	2	14

66	Single-walled carbon nanotubes affect the expression of genes associated with immune response in normal human astrocytes. *Toxicology in Vitro*, **2018**, 52, 122-130	3.6	13
65	In vitro study of the anticancer activity of various doxorubicin-containing dispersions. *BioImpacts*, **2019**, 9, 57-63	3.5	13
64	Abnormal Electron Transport in Graphite Intercalation Compounds with Iron. *Molecular Crystals and Liquid Crystals*, **2011**, 535, 64-73	0.5	13
63	A Novel Nanoconjugate of Landomycin A with C Fullerene for Cancer Targeted Therapy: Studies. *Cellular and Molecular Bioengineering*, **2019**, 12, 41-51	3.9	12
62	Complexation of aromatic drugs with single-walled carbon nanotubes. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	12
61	Biophysical characterization of the complexation of C60 fullerene with doxorubicin in a prokaryotic model. *Materialwissenschaft Und Werkstofftechnik*, **2016**, 47, 92-97	0.9	11
60	Determination of the equilibrium constant of C fullerene binding with drug molecules. *Physical Chemistry Chemical Physics*, **2017**, 19, 6777-6784	3.6	10
59	Electromagnetic losses in carbon–epoxy composites. *Materials Science and Engineering C*, **2007**, 27, 1007-1009	8.0	10
58	Water-Soluble Pristine C Fullerenes Inhibit Liver Fibrotic Alteration and Prevent Liver Cirrhosis in Rats. *Oxidative Medicine and Cellular Longevity*, **2020**, 2020, 8061246	6.7	9
57	Protective Effect of Water-Soluble Pristine C60 Fullerene in Ischemia-Reperfusion Injury of Skeletal Muscle. *International Journal of Physiology and Pathophysiology*, **2014**, 5, 97-110		9
56	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. *Cellular Signalling*, **2018**, 43, 40-46	4.9	9
55	General up-scaled model of ligand binding with C60 fullerene clusters in aqueous solution. *Chemical Physics Letters*, **2019**, 721, 22-26	2.5	8
54	Magnetoresistance of graphite intercalated with cobalt. *Journal of Materials Science*, **2018**, 53, 716-726	4.3	8
53	Impact of single-walled carbon nanotubes on the medullary neurons in spontaneously hypertensive rats. *Materialwissenschaft Und Werkstofftechnik*, **2013**, 44, 171-175	0.9	8
52	MODIFIED EXFOLIATED GRAPHITE AS A MATERIAL FOR SHIELDING AGAINST ELECTROMAGNETIC RADIATION. *International Journal of Nanoscience*, **2008**, 07, 263-268	0.6	8
51	Water-soluble pristine C fullerene attenuates acetaminophen-induced liver injury. *BioImpacts*, **2019**, 9, 227-237	3.5	8
50	New nanostructured apatite-type (Na+,Zn2+,CO32−)-doped calcium phosphates: Preparation, mechanical properties and antibacterial activity. *Journal of Molecular Structure*, **2020**, 1222, 128932	3.4	8
49	Therapeutic reactive oxygen generation. *Tumori*, **2008**, 94, 278-83	1.7	8

48	C fullerenes selectively inhibit BK but not K channels in pulmonary artery smooth muscle cells. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 19, 1-11	6	7
47	Evaluation of the Biocompatibility of Water-Soluble Pristine 60 Fullerenes in Rabbit. *BioNanoScience*, **2020**, 10, 721-730	3.4	7
46	Effect of uniaxial stress on the electrochemical properties of graphene with point defects. *Applied Surface Science*, **2018**, 442, 185-188	6.7	7
45	Magnetometric Studies of Catalyst Refuses in Nanocarbon Materials. *Nanoscale Research Letters*, **2008**, 3, 60-64	5	7
44	Combined action of C60 fullerene with dimethyl-N-(benzoyl)amidophosphate or dimethyl-N-(phenylsulfonyl)amidophosphate on leukemia L1210 cells in silico and in vitro. *Materialwissenschaft Und Werkstofftechnik*, **2016**, 47, 98-104	0.9	7
43	Effects of Pristine C Fullerenes on Liver and Pancreas in Naphthylisothiocyanate-Induced Cholangitis. *Digestive Diseases and Sciences*, **2020**, 65, 215-224	4	7
42	The strain- and impurity-dependent electron states and catalytic activity of graphene in a static magnetic field. *Optical Materials*, **2019**, 96, 109284	3.3	6
41	Single-walled carbon nanotubes modulate cardiovascular control in rats. *Materialwissenschaft Und Werkstofftechnik*, **2016**, 47, 208-215	0.9	6
40	Antitumor efficiency of the natural alkaloid berberine complexed with C60 fullerene in Lewis lung carcinoma in vitro and in vivo. *Cancer Nanotechnology*, **2021**, 12,	7.9	6
39	Fractal C60 fullerene aggregation: Equilibrium thermodynamics approach. *Chemical Physics Letters*, **2020**, 742, 137161	2.5	5
38	Self-Organization of Pristine C60 Fullerene and its Complexes with Chemotherapy Drugs in Aqueous Solution as Promising Anticancer Agents. *Springer Proceedings in Physics*, **2018**, 3-22	0.2	5
37	Single-walled carbon nanotubes affect the expression of the CCND2 gene in human U87 glioma cells. *Materialwissenschaft Und Werkstofftechnik*, **2016**, 47, 180-188	0.9	5
36	Magnetoresistance of multi-walled carbon nanotubes modified with iron. *Materialwissenschaft Und Werkstofftechnik*, **2013**, 44, 161-166	0.9	5
35	Development of Industry Oriented Curricular on Cyber Physical Systems for Belarusian and Ukrainian Universities **2018**,		5
34	C60 fullerene affects elastic properties and osmoregulation reactions of human lymphocytes. *European Biophysics Journal*, **2015**, 44, 493-8	1.9	4
33	Guest-host intercalate of double-walled carbon nanotube with tricarbonyl (cyclopentadienyl)manganese. *Materialwissenschaft Und Werkstofftechnik*, **2016**, 47, 203-207	0.9	4
32	Impact of Carbon Nanotubes on ATPase Activity and Superprecipitation Reaction of Natural Actomyosin. *International Journal of Physiology and Pathophysiology*, **2012**, 3, 341-347		4
31	Strain- and Adsorption-Dependent Electronic States and Transport or Localization in Graphene. *Springer Proceedings in Physics*, **2018**, 25-41	0.2	4

30	Radiation modification of polyvinyl chloride nanocomposites with multi-walled carbon nanotubes. *Materialwissenschaft Und Werkstofftechnik*, **2010**, 41, 675-681	0.9	3
29	C Fullerene Governs Doxorubicin Effect on Metabolic Profile of Rat Microglial Cells In Vitro. *Molecular Pharmaceutics*, **2020**, 17, 3622-3632	5.6	3
28	C fullerene against SARS-CoV-2 coronavirus: an in silico insight. *Scientific Reports*, **2021**, 11, 17748	4.9	3
27	Magnetic properties of N-doped multi-walled carbon nanotubes. *Materialwissenschaft Und Werkstofftechnik*, **2013**, 44, 136-138	0.9	2
26	Effect of weak impurities on conductivity of uniaxially strained graphene **2017**,		2
25	Synthesis, Characterization and EPR Investigation of □nduced Defects of Nanoparticles of (MI, CO3)-Containing Apatites (MI □Na, K). *Solid State Phenomena*, **2015**, 230, 133-139	0.4	2
24	Water-Soluble Nanoscale C60 Fullerenes as Effective Therapeutic Means for Prevention and Correction of Ischemic Injury in Skeletal Muscle. *International Journal of Physiology and Pathophysiology*, **2017**, 8, 177-193		2
23	Impedance characterization and microwave permittivity of multi-walled carbon nanotubes/BaTiO3/epoxy composites. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	2
22	A New Water-Soluble Thermosensitive Star-Like Copolymer as a Promising Carrier of the Chemotherapeutic Drug Doxorubicin. *Materials*, **2021**, 14,	3.5	2
21	Conformational, IR spectroscopic and electronic properties of conium alkaloids and their adducts with C60 fullerene. *Journal of Molecular Structure*, **2016**, 1118, 167-171	3.4	2
20	Design, characterization and mechanical properties of new Na+, CO32□apatite/alginate/C60 fullerene hybrid biocomposites. *Journal of the Korean Ceramic Society*, **2021**, 58, 422-429	2.2	2
19	Immobilization of cesium from aqueous solution using nanoparticles of synthetic calcium phosphates. *Chemistry Central Journal*, **2018**, 12, 87		2
18	C60 fullerenes increase the intensity of rotational movements in non-anesthetized hemiparkinsonic rats. *Acta Neurobiologiae Experimentalis*, **2020**, 80, 32-37	1	2
17	The Impact of Uniaxial Strain and Defect Pattern on Magnetoelectronic and Transport Properties of Graphene **2019**, 451-502		1
16	Novel Nanostructured Na+, Cu2+(Zn2+),CO32□HAP/Alginate Composite Scaffold: Fabrication, Characterization and Mechanical Properties. *ChemistrySelect*, **2019**, 4, 11435-11440	1.8	1
15	Hydration properties of nanosilica, modified by adsorbed C60 fullerene. *Materialwissenschaft Und Werkstofftechnik*, **2013**, 44, 244-248	0.9	1
14	Effect of multi-walled iron-filled carbon nanotubes on ATPase activity and superprecipitation of natural actomyosin. *Materialwissenschaft Und Werkstofftechnik*, **2013**, 44, 103-106	0.9	1
13	Thermopower of Nanocarbon Materials with Different Structure and Phase Composition. *Journal of Materials Science Research*, **2012**, 1,	1	1

12	Thermal diffusivity of nanocarbon composites. *Polymer Composites*, **2011**, 32, 14-17	3	1
11	Nanocomplex of Berberine with C Fullerene Is a Potent Suppressor of Lewis Lung Carcinoma Cells Invasion In Vitro and Metastatic Activity In Vivo. *Materials*, **2021**, 14,	3.5	1
10	Water-Soluble Pristine C Fullerene Inhibits Liver Alterations Associated with Hepatocellular Carcinoma in Rat. *Pharmaceutics*, **2020**, 12,	6.4	1
9	Clustering of hydrochloric acid on the surface of C60/C70 fullerite and its composites with nanosilica. *Materialwissenschaft Und Werkstofftechnik*, **2016**, 47, 172-179	0.9	1
8	Interaction of C60 fullerene complexed to cisplatin with model bilipid membranes and its uptake by HeLa cells. *Materialwissenschaft Und Werkstofftechnik*, **2016**, 47, 105-111	0.9	1
7	Post-traumatic recovery of muscle soleus in rats is improved via synergistic effect of C60 fullerene and TRPM8 agonist menthol. *Applied Nanoscience (Switzerland)*,1	3.3	1
6	Anticoronavirus Activity of Water-Soluble Pristine C Fullerenes: In Vitro and In Silico Screenings.. *Advances in Experimental Medicine and Biology*, **2021**, 1352, 159-172	3.6	1
5	Influence of impurity defects on vibrational and electronic structure of graphene. *Materialwissenschaft Und Werkstofftechnik*, **2013**, 44, 183-187	0.9	0
4	Chronic Alcoholization: Effect on Musculoskeletal System and Remedial Action of C60 Fullerenes. *International Journal of Physiology and Pathophysiology*, **2016**, 7, 273-284		
3	The Effect of Ultraviolet Irradiation on the Electro-transport Properties of Carbon Nanotubes. *Springer Proceedings in Physics*, **2019**, 145-163	0.2	
2	The Effectiveness of Antitumor Vaccine Enriched with a Heat Shock Protein 70. *Heat Shock Proteins*, **2018**, 325-345	0.2	
1	A Novel Water-Soluble C60 Fullerene-Based Nano-Platform Enhances Efficiency of Anticancer Chemotherapy **2022**, 59-93		