Cyril Popov

List of Publications by Year
in descending order

64 papers	855 citations	430442 18 h-index	552369 26 g-index
68 all docs	68 docs citations	68 times ranked	1056 citing authors

#	Article	IF	Citations
1	On the growth mechanisms of nanocrystalline diamond films. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 203-219.	0.8	79
2	Cell adhesion and growth on ultrananocrystalline diamond and diamond-like carbon films after different surface modifications. Applied Surface Science, 2014, 297, 95-102.	3.1	46
3	Bioproperties of nanocrystalline diamond/amorphous carbon composite films. Diamond and Related Materials, 2007, 16, 735-739.	1.8	45
4	Tribological properties of ultrananocrystalline diamond films in various test atmosphere. Tribology International, 2011, 44, 2042-2049.	3.0	38
5	Chemical vapour deposition of BC2N films and their laser-induced etching with SF6. Thin Solid Films, 1998, 312, 99-105.	0.8	31
6	Wettability and protein adsorption on ultrananocrystalline diamond/amorphous carbon composite films. Diamond and Related Materials, 2009, 18, 895-898.	1.8	29
7	DLC coating of textile blood vessels using PLD. Applied Physics A: Materials Science and Processing, 2008, 93, 627-632.	1.1	27
8	Plasma amination of ultrananocrystalline diamond/amorphous carbon composite films for the attachment of biomolecules. Diamond and Related Materials, 2011, 20, 254-258.	1.8	24
9	Low temperature growth of nanocrystalline and ultrananocrystalline diamond films: A comparison. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1664-1674.	0.8	24
10	Sensitivity to Pigment-Dispersing Factor (PDF) Is Cell-Type Specific among PDF-Expressing Circadian Clock Neurons in the Madeira Cockroach. Journal of Biological Rhythms, 2018, 33, 35-51.	1.4	24
11	Progress in the Utilization of Coal Fly Ash by Conversion to Zeolites with Green Energy Applications. Materials, 2020, 13, 2014.	1.3	24
12	Synthesis of nitrogen-rich Bâ€"Câ€"N materials from melamine and boron trichloride. Journal of Materials Science, 1998, 33, 1281-1286.	1.7	22
13	Complex (As2S3)(100â^')(AgI) chalcogenide glasses for gas sensors. Sensors and Actuators B: Chemical, 2009, 143, 395-399.	4.0	22
14	Incorporation and study of SiV centers in diamond nanopillars. Diamond and Related Materials, 2016, 64, 64-69.	1.8	22
15	Patterning of the surface termination of ultrananocrystalline diamond films for guided cell attachment and growth. Surface and Coatings Technology, 2017, 321, 229-235.	2.2	22
16	Recent Progress in Synthesis and Application of Nanosized and Hierarchical Mordeniteâ€"A Short Review. Catalysts, 2021, 11, 308.	1.6	22
17	On the development of the morphology of ultrananocrystalline diamond films. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 70-80.	0.8	20
18	Deterministic Arrays of Epitaxially Grown Diamond Nanopyramid<i>s</i> with Embedded Siliconâ€Vacancy Centers. Advanced Optical Materials, 2019, 7, 1800715.	3.6	20

#	ARTICLE	IF	CITATIONS
19	Nanocrystalline diamond/amorphous carbon composite coatings for biomedical applications. Diamond and Related Materials, 2008, 17, 882-887.	1.8	18
20	Electrical properties of ultrananocrystalline diamond/amorphous carbon nanocomposite films. Diamond and Related Materials, 2010, 19, 449-452.	1.8	18
21	Nanocrystalline diamond containing hydrogels and coatings for acceleration of osteogenesis. Diamond and Related Materials, 2011, 20, 165-169.	1.8	17
22	Characterization of pulsed laser deposited chalcogenide thin layers. Applied Surface Science, 2009, 255, 5318-5321.	3.1	16
23	Influence of the surface termination of ultrananocrystalline diamond/amorphous carbon composite films on their interaction with neurons. Diamond and Related Materials, 2012, 26, 60-65.	1.8	16
24	Novel Ultra Localized and Dense Nitrogen Delta-Doping in Diamond for Advanced Quantum Sensing. Nano Letters, 2020, 20, 3192-3198.	4.5	16
25	Influence of the nucleation density on the structure and mechanical properties of ultrananocrystalline diamond films. Diamond and Related Materials, 2009, 18, 151-154.	1.8	15
26	UNCD/a-C nanocomposite films for biotechnological applications. Surface and Coatings Technology, 2011, 206, 667-675.	2.2	13
27	Reactive ion etching of nanocrystalline diamond for the fabrication of one-dimensional nanopillars. Diamond and Related Materials, 2013, 36, 58-63.	1.8	13
28	Grafting of manganese phthalocyanine on nanocrystalline diamond films. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2048-2054.	0.8	12
29	Comparison of the surface properties of <scp>DLC</scp> and ultrananocrystalline diamond films with respect to their bioâ€applications. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2106-2110.	0.8	12
30	Plasma surface fluorination of ultrananocrystalline diamond films. Surface and Coatings Technology, 2016, 302, 448-453.	2.2	12
31	Super-high-frequency SAW transducer utilizing AlN/ultrananocrystalline diamond architectures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1581-1586.	1.7	11
32	Strong attachment of circadian pacemaker neurons on modified ultrananocrystalline diamond surfaces. Materials Science and Engineering C, 2016, 64, 278-285.	3.8	11
33	Stability of the surface termination of differently modified ultrananocrystalline diamond/amorphous carbon composite films. Surface and Coatings Technology, 2012, 209, 184-189.	2.2	10
34	Antimicrobial propensity of ultrananocrystalline diamond films with embedded silver nanodroplets. Diamond and Related Materials, 2019, 93, 168-178.	1.8	10
35	Investigation of diamond electrodes for photoâ€electrochemistry. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2333-2338.	0.8	9
36	Homoepitaxial Diamond Structures with Incorporated SiV Centers. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800371.	0.8	9

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37	Fabrication and Characterization of Single-Crystal Diamond Membranes for Quantum Photonics with Tunable Microcavities. Micromachines, 2020, 11, 1080.	1.4	8
38	Fabrication of highly dense arrays of nanocrystalline diamond nanopillars with integrated silicon-vacancy color centers during the growth. Optical Materials Express, 2019, 9, 4545.	1.6	8
39	Spectroscopic studies of (AsSe)100â^'xAgx thin films. Applied Surface Science, 2009, 255, 9691-9694.	3.1	7
40	Thin TiCN Films Prepared by Hybrid Magnetron-Laser Deposition. Plasma Processes and Polymers, 2007, 4, S651-S654.	1.6	6
41	Influence of surface termination of ultrananocrystalline diamond films coated on titanium on response of human osteoblast cells: A proteome study. Materials Science and Engineering C, 2021, 128, 112289.	3.8	5
42	Optical and Spin Properties of NV Center Ensembles in Diamond Nano-Pillars. Nanomaterials, 2022, 12, 1516.	1.9	5
43	Fabrication of Nanopillars on Nanocrystalline Diamond Membranes for the Incorporation of Color Centers. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900233.	0.8	4
44	Processing of high-grade zeolite nanocomposites from solid fuel combustion by-products as critical raw materials substitutes. Manufacturing Review, 2020, 7, 22.	0.9	4
45	Influence of the Gas Phase Composition on Nanocrystalline Diamond Films Prepared by MWCVD. Journal of Metastable and Nanocrystalline Materials, 2005, 23, 31-34.	0.1	3
46	Some features of chalcohalide glassy Geâ€"Sâ€"AgI thin films. Journal of Physics and Chemistry of Solids, 2007, 68, 936-939.	1.9	3
47	Investigation of NV centers in diamond nanocrystallites and nanopillars. Physica Status Solidi (B): Basic Research, 2013, 250, 48-50.	0.7	3
48	Functionalization of nanocrystalline diamond films with phthalocyanines. Applied Surface Science, 2016, 379, 415-423.	3.1	3
49	Nanostructured modified ultrananocrystalline diamond surfaces as immobilization support for lipases. Diamond and Related Materials, 2018, 90, 32-39.	1.8	3
50	Development of a Planarization Process for the Fabrication of Nanocrystalline Diamond Based Photonic Structures. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900314.	0.8	3
51	Nanocrystalline Diamond Films for Biosensor Applications. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 447-462.	0.2	3
52	Structural and optical properties of ultrananocrystalline diamond / InGaAs/GaAs quantum dot structures. Thin Solid Films, 2009, 518, 1489-1492.	0.8	2
53	Optical studies of (AsSe)100â^'x Sb x thin films. Applied Physics A: Materials Science and Processing, 2011, 104, 959-962.	1.1	2
54	Design of Injection Feed Multiwafer Lowâ€Pressure Chemical Vapor Deposition Reactors. Journal of the Electrochemical Society, 1998, 145, 2494-2498.	1.3	1

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55	Fabrication of Diamond AFM Tips for Quantum Sensing. NATO Science for Peace and Security Series B: Physics and Biophysics, 2020, , 171-185.	0.2	1
56	Ultrananocrystalline Diamond / Amorphous Carbon Composite Films â€“ Deposition, Characterization and Applications. Solid State Phenomena, 2010, 159, 49-55.	0.3	0
57	Surface Development of (As2S3)1â€“x (AgI)x Thin Films for Gas Sensor Applications. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 203-209.	0.2	0
58	On the Mechanical Properties of Ultrananocrystalline Diamond/Amorphous Carbon Nanocomposite Films. Micro and Nanosystems, 2014, 6, 4-8.	0.3	0
59	Quantum Information Technology and Sensing Based on Color Centers in Diamond. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 193-214.	0.2	0
60	Enhancement of the light emission of color center containing nanodiamond structures. , 2018, , .		0
61	Enhanced Quantum Nano-Sources Based on Silicon-Vacancy Centers in Epitaxially Grown Diamond Nano-Pyramids. , 2019, , .		0
62	Quantum Nano-Jewelry: Plasmonic Addressing of Single-Photon Emitters in High-Quality Diamond Nanostructures. , 2019, , .		0
63	Gas Sensor Based on Chalcohalide AgI-Containing Glasses. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 423-426.	0.2	0
64	High-quality Nanometric Quantum Source: Epitaxially Grown Diamond Nano-pyramids with Silicon-Vacancy Centers. , 2019, , .		0