

Vclav Cuba

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.

54 papers	493 citations	13 h-index	18 g-index
56 ext. papers	605 ext. citations	2.6 avg, IF	3.92 L-index

#	Paper	IF	Citations
54	On the Role of CsPbBr Phase in the Luminescence Performance of Bright CsPbBr Nanocrystals. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
53	Scintillation Response Enhancement in Nanocrystalline Lead Halide Perovskite Thin Films on Scintillating Wafers.. <i>Nanomaterials</i> , 2021 , 12,	5.4	3
52	CsPbBr ₃ Thin Films on LYSO:Ce Substrates. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 933-938	1.7	5
51	. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 962-968	1.7	1
50	Synthesis of inorganic nanoparticles by ionizing radiation [a review]. <i>Radiation Physics and Chemistry</i> , 2020 , 169, 108774	2.5	20
49	Synthesis routes of CeO ₂ nanoparticles dedicated to organophosphorus degradation: a benchmark. <i>CrystEngComm</i> , 2020 , 22, 1725-1737	3.3	10
48	Primordial Radioactivity and Prebiotic Chemical Evolution: Effect of [Radiation on Formamide-Based Synthesis. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 8951-8959	3.4	1
47	Ariel [a window to the origin of life on early earth?. <i>Experimental Astronomy</i> , 2020 , 1	1.3	1
46	On the structure, synthesis, and characterization of ultrafast blue-emitting CsPbBr ₃ nanoplatelets. <i>APL Materials</i> , 2019 , 7, 011104	5.7	24
45	Synthesis of inorganic nanoparticles by ionizing radiation [a review. <i>Radiation Physics and Chemistry</i> , 2019 , 158, 153-164	2.5	17
44	ETHANOL AS A MODIFIER OF RADIATION SENSITIVITY OF LIVING CELLS AGAINST UV-C RADIATION. <i>Radiation Protection Dosimetry</i> , 2019 , 186, 191-195	0.9	1
43	Core-shell ZnO:Ga-SiO nanocrystals: limiting particle agglomeration and increasing luminescence surface defect passivation.. <i>RSC Advances</i> , 2019 , 9, 28946-28952	3.7	6
42	RADIOPROTECTIVE EFFECT OF HYDROXYL RADICAL SCAVENGERS ON PROKARYOTIC AND EUKARYOTIC CELLS UNDER VARIOUS GAMMA IRRADIATION CONDITIONS. <i>Radiation Protection Dosimetry</i> , 2019 , 186, 186-190	0.9	1
41	Novel scintillating nanocomposite for X-ray induced photodynamic therapy. <i>Radiation Measurements</i> , 2019 , 121, 13-17	1.5	5
40	Photoinduced Preparation of Bandgap-Engineered Garnet Powders. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 2184-2190	1.7	3
39	LuAG:Pr-porphyrin based nanohybrid system for singlet oxygen production: Toward the next generation of PDTX drugs. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 179, 149-155	6.7	10
38	YAG Ceramic Nanocrystals Implementation into MCVD Technology of Active Optical Fibers. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 833	2.6	9

37	Ultrafast Zn(Cd,Mg)O:Ga nanoscintillators with luminescence tunable by band gap modulation. <i>Optics Express</i> , 2018 , 26, 29482-29494	3.3	6
36	Effects of irradiation conditions on the radiation sensitivity of microorganisms in the presence of OH-radical scavengers. <i>International Journal of Radiation Biology</i> , 2018 , 94, 1142-1150	2.9	2
35	Influence of the dose rate of gamma irradiation and some other conditions on the radiation protection of microbial cells by scavenging of OH radicals. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 318, 2449-2453	1.5	2
34	Sorption properties of selected oxidic nanoparticles for the treatment of spent decontamination solutions based on citric acid. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 318, 2443-2448	1.5	0
33	Degradation of phospholipids under different types of irradiation and varying oxygen saturation. <i>Radiation and Environmental Biophysics</i> , 2017 , 56, 241-247	2	1
32	At the crossroad of photochemistry and radiation chemistry: formation of hydroxyl radicals in diluted aqueous solutions exposed to ultraviolet radiation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29402-29408	3.6	9
31	Pr-doped Lu ₃ Al ₅ O ₁₂ scintillation nanopowders prepared by radiation method. <i>Journal of Luminescence</i> , 2016 , 179, 21-25	3.8	4
30	Timing performance of ZnO:Ga nanopowder composite scintillators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016 , 10, 843-847	2.5	19
29	Luminescence and scintillation properties of Lu ₃ Al ₅ O ₁₂ nanoceramics sintered by SPS method. <i>Optical Materials</i> , 2016 , 53, 54-63	3.3	11
28	Gamma-radiolytic preparation of multi-component oxides. <i>Radiation Physics and Chemistry</i> , 2016 , 124, 68-74	2.5	3
27	Preparation of UO ₂ , ThO ₂ and (Th,U)O ₂ pellets from photochemically-prepared nano-powders. <i>Journal of Nuclear Materials</i> , 2016 , 469, 57-61	3.3	10
26	E-beam and UV induced fabrication of CeO ₂ , Eu ₂ O ₃ and their mixed oxides with UO ₂ . <i>Radiation Physics and Chemistry</i> , 2016 , 124, 252-257	2.5	1
25	Preparation and luminescence properties of ZnO:Ga - polystyrene composite scintillator. <i>Optics Express</i> , 2016 , 24, 15289-98	3.3	46
24	Determination of the survival of yeast and bacteria under the influence of gamma or UV radiation in the presence of some scavengers of OH radicals. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 304, 237-244	1.5	5
23	Photo and radiation induced synthesis of (Ni, Zn)O or mixed NiO/ZnO oxides. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 304, 245-250	1.5	4
22	Fabrication of highly efficient ZnO nanoscintillators. <i>Optical Materials</i> , 2015 , 47, 67-71	3.3	27
21	Breaking DNA strands by extreme-ultraviolet laser pulses in vacuum. <i>Physical Review E</i> , 2015 , 91, 042718	2.4	10
20	Indirect synthesis of Al ₂ O ₃ via radiation- or photochemical formation of its hydrated precursors. <i>Materials Research Bulletin</i> , 2014 , 49, 633-639	5.1	6

19	UV radiation: a promising tool in the synthesis of multicomponent nano-oxides. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	6
18	Preparation and luminescent properties of ZnO:Ga(La)/polymer nanocomposite. <i>Radiation Measurements</i> , 2013 , 56, 102-106	1.5	7
17	Photo-induced low temperature synthesis of nanocrystalline UO ₂ , ThO ₂ and mixed UO ₂ ThO ₂ oxides. <i>Journal of Nuclear Materials</i> , 2013 , 442, 29-32	3.3	19
16	Influence of various scavengers of OH radicals on the radiation sensitivity of yeast and bacteria. <i>International Journal of Radiation Biology</i> , 2013 , 89, 1045-52	2.9	17
15	Preparation of inorganic crystalline compounds induced by ionizing, UV and laser radiations. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 1411-1416	2.5	9
14	Radiation-induced preparation of pure and Ce-doped lutetium aluminium garnet and its luminescent properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16590		31
13	Photo- and radiation-induced preparation of Y ₂ O ₃ and Y ₂ O ₃ :Ce(Eu) nanocrystals. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	3
12	Photochemical preparation of ZnO nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4529-4537	2.3	16
11	Radiolytic formation of ferrous and ferric ions in carbon steel deaerated water system. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 440-445	2.5	5
10	Radiation induced synthesis of powder yttrium aluminium garnet. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 957-962	2.5	11
9	Properties of ZnO nanocrystals prepared by radiation method. <i>Radiation Physics and Chemistry</i> , 2010 , 79, 27-32	2.5	16
8	Measurement of growth and survival curves of microorganisms influenced by radiation. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 286, 603-610	1.5	4
7	Effect of dose and dose rate of gamma radiation on catalytic activity of catalase. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 286, 619-624	1.5	2
6	Photo- and radiation-induced preparation of nanocrystalline copper and cuprous oxide catalysts. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010 , 286, 611-618	1.5	32
5	Radiation formation of colloidal silver particles in aqueous systems. <i>Applied Radiation and Isotopes</i> , 2010 , 68, 676-8	1.7	13
4	Radiation and chemical stability of calix[4]arene derivatives as prospective liquid-liquid extractants. <i>Radiochimica Acta</i> , 2009 , 97,	1.9	2
3	Radiolysis of oxalic and citric acids using gamma rays and accelerated electrons. <i>Radiation Physics and Chemistry</i> , 2008 , 77, 884-888	2.5	4
2	Radiation dechlorination of some chlorinated hydrocarbons particularly of carbon tetrachloride in presence of HCO ₃ ⁻ or NO ₃ ⁻ ions. <i>Applied Catalysis A: General</i> , 2004 , 271, 195-201	5.1	9

1	Advanced Halide Scintillators: From the Bulk to Nano. <i>Advanced Photonics Research</i> , 2200011	1.9	1
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