

# Zorica KaÄareviÄ PopoviÄ

## List of Publications by Year in descending order

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56  
papers

1,269  
citations

279487

23  
h-index

360668

35  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1408  
citing authors

#	ARTICLE	IF	CITATIONS
1	The sorption characteristics of epoxy coatings electrodeposited on steel during exposure to different corrosive agents. <i>Corrosion Science</i> , 1996, 38, 1513-1523.	3.0	92
2	Radiolytic synthesis and characterization of Ag-PVA nanocomposites. <i>European Polymer Journal</i> , 2007, 43, 2171-2176.	2.6	83
3	Fabrication of Ag-PVA hydrogel nanocomposite by $\text{I}^{137}$ -irradiation. <i>Polymer Bulletin</i> , 2007, 58, 271-279.	1.7	64
4	Synthesis and characterization of silver/poly(N-vinyl-2-pyrrolidone) hydrogel nanocomposite obtained by in situ radiolytic method. <i>Radiation Physics and Chemistry</i> , 2011, 80, 1208-1215.	1.4	61
5	Corrosion behavior and thermal stability of electrodeposited PANI/epoxy coating system on mild steel in sodium chloride solution. <i>Progress in Organic Coatings</i> , 2006, 56, 214-219.	1.9	55
6	Corrosion behaviour of epoxy coatings electrodeposited on galvanized steel and steel modified by Zn-Ni alloys. <i>Progress in Organic Coatings</i> , 2000, 39, 127-135.	1.9	53
7	Radiolitically synthesized nano Ag/C catalysts for oxygen reduction and borohydride oxidation reactions in alkaline media, for potential applications in fuel cells. <i>Energy</i> , 2016, 101, 79-90.	4.5	50
8	Corrosion behaviour of epoxy coatings electrodeposited on steel electrochemically modified by Zn-Ni alloy. <i>Electrochimica Acta</i> , 1999, 44, 4269-4277.	2.6	47
9	Structural and optical characteristics of silver/poly(N-vinyl-2-pyrrolidone) nanosystems synthesized by $\text{I}^{137}$ -irradiation. <i>Radiation Physics and Chemistry</i> , 2012, 81, 1720-1728.	1.4	42
10	Dual responsive antibacterial Ag-poly(N-isopropylacrylamide/itaconic acid) hydrogel nanocomposites synthesized by gamma irradiation. <i>European Polymer Journal</i> , 2015, 69, 168-185.	2.6	41
11	Optical and structural properties of radiolytically in situ synthesized silver nanoparticles stabilized by chitosan/poly(vinyl alcohol) blends. <i>Radiation Physics and Chemistry</i> , 2014, 96, 158-166.	1.4	40
12	Effect of ageing on the dielectric relaxation of oriented and gamma irradiated LDPE. <i>Polymer Degradation and Stability</i> , 2001, 71, 367-373.	2.7	38
13	The influence of steel surface modification by electrodeposited Zn-Fe alloys on the protective behaviour of an epoxy coating. <i>Progress in Organic Coatings</i> , 2003, 47, 49-54.	1.9	38
14	On the use of gamma irradiation crosslinked PVA membranes in hydrogen fuel cells. <i>Electrochemistry Communications</i> , 2007, 9, 2661-2665.	2.3	36
15	Changes of hydrogen storage properties of MgH <sub>2</sub> induced by heavy ion irradiation. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1876-1879.	3.8	36
16	Corrosion stability of epoxy coatings on aluminum pretreated by vinyltriethoxysilane. <i>Corrosion Science</i> , 2008, 50, 2078-2084.	3.0	36
17	Structural destabilisation of MgH <sub>2</sub> obtained by heavy ion irradiation. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7275-7282.	3.8	32
18	Electrochemical synthesis and characterization of hydroxyapatite powders. <i>Materials Chemistry and Physics</i> , 2008, 111, 137-142.	2.0	31

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19	Dynamic thermogravimetric degradation of gamma radiolytically synthesized Ag/PVA nanocomposites. <i>Thermochimica Acta</i> , 2007, 460, 28-34.	1.2	29
20	Functionalization of carbon nanotubes with silver clusters. <i>Applied Surface Science</i> , 2010, 256, 7048-7055.	3.1	29
21	<i>In vitro</i> silver ion release kinetics from nanosilver/poly(vinyl alcohol) hydrogels synthesized by gamma irradiation. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	27
22	Bioreactor validation and biocompatibility of Ag/poly(N-vinyl-2-pyrrolidone) hydrogel nanocomposites. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 105, 230-235.	2.5	26
23	Role of Excess Electrons in TiO <sub>2</sub> Nanoparticles Coated with Pt in Reduction Reactions Studied in Radiolysis of Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 20291-20295.	1.2	24
24	Influence of orientation and irradiation on stress relaxation of linear low-density polyethylene (LLDPE): a two-process model. <i>Polymer</i> , 1999, 40, 2631-2637.	1.8	23
25	Improved Poly(vinyl alcohol) (PVA) based matrix as a potential solid electrolyte for electrochemical energy conversion devices, obtained by gamma irradiation. <i>Energy</i> , 2015, 90, 595-604.	4.5	21
26	Characterization of poly(vinyl alcohol)/gold nanocomposites obtained by <i>in situ</i> gamma irradiation method. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1244-1251.	1.3	20
27	Influence of the irradiation conditions on the effect of radiation on polyethylene. <i>Journal of the Serbian Chemical Society</i> , 2004, 69, 1029-1041.	0.4	20
28	Effect of gamma irradiation on the dielectric relaxation of uniaxially oriented low density polyethylene. <i>Polymer International</i> , 1999, 48, 1193-1196.	1.6	19
29	Determination of the protective properties of electrodeposited organic epoxy coatings on aluminium and modified aluminium surfaces. <i>Corrosion Science</i> , 2005, 47, 823-834.	3.0	18
30	Silver/poly(N-vinyl-2-pyrrolidone) hydrogel nanocomposites obtained by electrochemical synthesis of silver nanoparticles inside the polymer hydrogel aimed for biomedical applications. <i>Polymer Composites</i> , 2014, 35, 217-226.	2.3	15
31	The change of crystal symmetry and cation ordering in Li-Mg ferrites. <i>Journal of Alloys and Compounds</i> , 2002, 336, 286-291.	2.8	14
32	Characterization of Gamma Irradiated Ethylene-Norbornene Copolymer using FTIR, UV-Vis and DSC Techniques. <i>Polymer Bulletin</i> , 2008, 60, 313-322.	1.7	14
33	Efficient and novel Sb <sub>2</sub> S <sub>3</sub> based solar cells with chitosan/poly(ethylene Terephthalate) matrix. <i>Journal of Applied Polymer Science</i> , 2017, 139, 4507-4514.	2.2	12
34	Structural characteristics and bonding environment of Ag nanoparticles synthesized by gamma irradiation within thermo-responsive poly(N-vinyl-2-pyrrolidone)- <i>co</i> -isopropylacrylamide hydrogel. <i>Polymer Composites</i> , 2017, 38, 1014-1026.	2.3	11
35	Flexible and high-efficiency Sb <sub>2</sub> S <sub>3</sub> /solid carrier solar cell at low light intensity. <i>Environmental Chemistry Letters</i> , 2018, 16, 659-664.	8.3	11
36	The role of low light intensity: A cheap, stable, and solidly efficient amorphous Sb <sub>2</sub> S <sub>3</sub> powder/hypericin composite/PVA matrix loaded with electrolyte solar cell. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 1507-1516.	1.3	10

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37	Physico-chemical characteristics of gamma irradiation crosslinked poly(vinyl alcohol)/magnetite ferrogel composite. <i>Hemijaska Industrija</i> , 2014, 68, 743-753.	0.3	9
38	The study of corrosion stability of organic epoxy protective coatings on aluminium and modified aluminium surfaces. <i>Journal of the Brazilian Chemical Society</i> , 2005, 16, 98-102.	0.6	7
39	MALDI TOF and theoretical investigation of silver clusters obtained by gamma irradiation. <i>Vacuum</i> , 2013, 89, 47-52.	1.6	7
40	Surface modification of ethylene-norbornene copolymer by irradiation with N <sup>4+</sup> ion beams. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 236, 594-598.	0.6	6
41	Modification of ethylene-norbornene copolymer by Gamma irradiation. <i>Hemijaska Industrija</i> , 2006, 60, 311-315.	0.3	4
42	Electroanalytical Sensing of Bromides Using Radiolytically Synthesized Silver Nanoparticle Electrocatalysts. <i>Journal of Analytical Methods in Chemistry</i> , 2017, 2017, 1-9.	0.7	3
43	The influence of fire retardants on the properties of beech and poplar veneers and plywood. <i>Glasnik Āumarskog Fakulteta: Univerzitet U Beogradu</i> , 2005, , 111-124.	0.0	3
44	Nanocomposite Hydrogels Obtained by Gamma Irradiation. <i>Polymers and Polymeric Composites</i> , 2019, , 601-623.	0.6	2
45	Radiolytic synthesis and characterization of PVA/Au nanocomposites: The influence of pH values. <i>Hemijaska Industrija</i> , 2008, 62, 101-106.	0.3	2
46	The effect of Zn-Ni sublayers on the corrosion behaviour and thermal stability of epoxy coatings electrodeposited on steel. <i>Journal of the Serbian Chemical Society</i> , 2000, 65, 923-933.	0.4	2
47	Silver/poly(N-vinyl-2-pyrrolidone) nanocomposites obtained by the electrochemical synthesis. <i>Hemijaska Industrija</i> , 2011, 65, 687-696.	0.3	1
48	Nanocomposite Hydrogels Obtained by Gamma Irradiation. <i>Polymers and Polymeric Composites</i> , 2018, , 1-23.	0.6	1
49	Thermal properties of radiolytically synthesized PVA/Ag nanocomposites. <i>Hemijaska Industrija</i> , 2007, 61, 129-134.	0.3	1
50	Electrochemical properties and thermal stability of epoxy coatings electrodeposited on aluminium and modified aluminium surfaces. <i>Journal of the Serbian Chemical Society</i> , 2001, 66, 871-880.	0.4	1
51	Determining the degree of fire retardancy of plywood with thermogravimetry, part I: Beech plywood. <i>Glasnik Āumarskog Fakulteta: Univerzitet U Beogradu</i> , 2007, , 57-71.	0.0	1
52	Improvement of antibacterial activity of Ag-poly(vinyl-alcohol)/chitosan hydrogel by optimizing the procedure of radiolytic synthesis. <i>Radiation Physics and Chemistry</i> , 2022, 194, 110045.	1.4	1
53	Epoxy coatings electrodeposited on aluminium and modified aluminium surfaces. <i>Hemijaska Industrija</i> , 2002, 56, 468-472.	0.3	0
54	Protective properties of epoxy coatings electrodeposited on steel electrochemically modified by Zn-Fe alloys. <i>Hemijaska Industrija</i> , 2004, 58, 450-456.	0.3	0

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55	Corrosion behavior of duplex polyaniline/epoxy coating on mild steel in 3% NaCl. Hemijska Industrija, 2005, 59, 317-320.	0.3	0
56	Radiolytic synthesis and characterization of PVA and chitosan based conductive polymer membranes for alkaline fuel cells. Tehnika, 2014, 69, 190-195.	0.0	0