

# Zorica Kacarevic Popovic

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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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.

55  
papers

1,072  
citations

22  
h-index

31  
g-index

56  
ext. papers

1,181  
ext. citations

3.3  
avg, IF

3.84  
L-index

#	Paper	IF	Citations
55	Improvement of antibacterial activity of Ag-poly(vinyl-alcohol)/chitosan hydrogel by optimizing the procedure of radiolytic synthesis. <i>Radiation Physics and Chemistry</i> , <b>2022</b> , 194, 110045	2.5	
54	Nanocomposite Hydrogels Obtained by Gamma Irradiation. <i>Polymers and Polymeric Composites</i> , <b>2019</b> , 601-623	0.6	2
53	Flexible and high-efficiency Sb2S3/solid carrier solar cell at low light intensity. <i>Environmental Chemistry Letters</i> , <b>2018</b> , 16, 659-664	13.3	6
52	Efficient and novel Sb2S3 based solar cells with chitosan/poly(ethylene glycol)/electrolyte blend. <i>International Journal of Energy Research</i> , <b>2018</b> , 42, 843-852	4.5	7
51	Nanocomposite Hydrogels Obtained by Gamma Irradiation. <i>Polymers and Polymeric Composites</i> , <b>2018</b> , 1-23	0.6	
50	Structural characteristics and bonding environment of Ag nanoparticles synthesized by gamma irradiation within thermo-responsive poly(N-isopropylacrylamide) hydrogel. <i>Polymer Composites</i> , <b>2017</b> , 38, 1014-1026	3	6
49	The role of low light intensity: A cheap, stable, and solidly efficient amorphous Sb2S3 powder/hypericin composite/PVA matrix loaded with electrolyte solar cell. <i>Environmental Progress and Sustainable Energy</i> , <b>2017</b> , 36, 1507-1516	2.5	6
48	Electroanalytical Sensing of Bromides Using Radiolytically Synthesized Silver Nanoparticle Electrocatalysts. <i>Journal of Analytical Methods in Chemistry</i> , <b>2017</b> , 2017, 2028417	2	2
47	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> , <b>2016</b> , 101, 79-90	7.9	36
46	Dual responsive antibacterial Ag-poly(N-isopropylacrylamide/itaconic acid) hydrogel nanocomposites synthesized by gamma irradiation. <i>European Polymer Journal</i> , <b>2015</b> , 69, 168-185	5.2	31
45	Improved Poly(vinyl alcohol) (PVA) based matrix as a potential solid electrolyte for electrochemical energy conversion devices, obtained by gamma irradiation. <i>Energy</i> , <b>2015</b> , 90, 595-604	7.9	17
44	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> , <b>2014</b> , 35, 217-226	3	12
43	Optical and structural properties of radiolytically in situ synthesized silver nanoparticles stabilized by chitosan/poly(vinyl alcohol) blends. <i>Radiation Physics and Chemistry</i> , <b>2014</b> , 96, 158-166	2.5	33
42	In vitro silver ion release kinetics from nanosilver/poly(vinyl alcohol) hydrogels synthesized by gamma irradiation. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	20
41	Physico-chemical characteristics of gamma irradiation crosslinked poly(vinyl alcohol)/magnetite ferrogel composite. <i>Hemijska Industrija</i> , <b>2014</b> , 68, 743-753	0.6	8
40	Bioreactor validation and biocompatibility of Ag/poly(N-vinyl-2-pyrrolidone) hydrogel nanocomposites. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 105, 230-5	6	24
39	MALDI TOF and theoretical investigation of silver clusters obtained by gamma irradiation. <i>Vacuum</i> , <b>2013</b> , 89, 47-52	3.7	7

38	Structural and optical characteristics of silver/poly(N-vinyl-2-pyrrolidone) nanosystems synthesized by irradiation. <i>Radiation Physics and Chemistry</i> , <b>2012</b> , 81, 1720-1728	2.5	31
37	Characterization of poly(vinyl alcohol)/gold nanocomposites obtained by in situ gamma-irradiation method. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 1244-1251	2.9	16
36	Silver/poly(N-vinyl-2-pyrrolidone) nanocomposites obtained by the electrochemical synthesis. <i>Hemijaska Industrija</i> , <b>2011</b> , 65, 687-696	0.6	1
35	Synthesis and characterization of silver/poly(N-vinyl-2-pyrrolidone) hydrogel nanocomposite obtained by in situ radiolytic method. <i>Radiation Physics and Chemistry</i> , <b>2011</b> , 80, 1208-1215	2.5	56
34	Functionalization of carbon nanotubes with silver clusters. <i>Applied Surface Science</i> , <b>2010</b> , 256, 7048-7056	6.7	27
33	Structural destabilisation of MgH <sub>2</sub> obtained by heavy ion irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7275-7282	6.7	26
32	Electrochemical synthesis and characterization of hydroxyapatite powders. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 111, 137-142	4.4	26
31	Corrosion stability of epoxy coatings on aluminum pretreated by vinyltriethoxysilane. <i>Corrosion Science</i> , <b>2008</b> , 50, 2078-2084	6.8	33
30	Characterization of Gamma Irradiated Ethylene-Norbornene Copolymer using FTIR, UV-Vis and DSC Techniques. <i>Polymer Bulletin</i> , <b>2008</b> , 60, 313-322	2.4	12
29	Changes of hydrogen storage properties of MgH <sub>2</sub> induced by heavy ion irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 1876-1879	6.7	29
28	Radiolytic synthesis and characterization of PVA/Au nanocomposites: The influence of pH values. <i>Hemijaska Industrija</i> , <b>2008</b> , 62, 101-106	0.6	2
27	Dynamic thermogravimetric degradation of gamma radiolytically synthesized Ag/PVA nanocomposites. <i>Thermochimica Acta</i> , <b>2007</b> , 460, 28-34	2.9	25
26	On the use of gamma irradiation crosslinked PVA membranes in hydrogen fuel cells. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 2661-2665	5.1	30
25	Radiolytic synthesis and characterization of Ag-PVA nanocomposites. <i>European Polymer Journal</i> , <b>2007</b> , 43, 2171-2176	5.2	74
24	Fabrication of Ag-PVA hydrogel nanocomposite by irradiation. <i>Polymer Bulletin</i> , <b>2007</b> , 58, 271-279	2.4	55
23	Thermal properties of radiolytically synthesized PVA/Ag nanocomposites. <i>Hemijaska Industrija</i> , <b>2007</b> , 61, 129-134	0.6	1
22	Determining the degree of fire retardancy of plywood with thermogravimetry, part I: Beech plywood. <i>Glasnik Ćumarskog Fakulteta: Univerzitet U Beogradu</i> , <b>2007</b> , 57-71	0.1	1
21	Corrosion behavior and thermal stability of electrodeposited PANI/epoxy coating system on mild steel in sodium chloride solution. <i>Progress in Organic Coatings</i> , <b>2006</b> , 56, 214-219	4.8	48

20	Modification of ethylene-norbornene copolymer by Gamma irradiation. <i>Hemijska Industrija</i> , <b>2006</b> , 60, 311-315	0.6	3
19	Determination of the protective properties of electrodeposited organic epoxy coatings on aluminium and modified aluminium surfaces. <i>Corrosion Science</i> , <b>2005</b> , 47, 823-834	6.8	12
18	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> , <b>2005</b> , 236, 594-598	1.2	6
17	The study of corrosion stability of organic epoxy protective coatings on aluminium and modified aluminium surfaces. <i>Journal of the Brazilian Chemical Society</i> , <b>2005</b> , 16, 98-102	1.5	6
16	The influence of fire retardants on the properties of beech and poplar veneers and plywood. <i>Glasnik Ćumarskog Fakulteta: Univerzitet U Beogradu</i> , <b>2005</b> , 111-124	0.1	2
15	Corrosion behavior of duplex polyaniline/epoxy coating on mild steel in 3% NaCl. <i>Hemijska Industrija</i> , <b>2005</b> , 59, 317-320	0.6	
14	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> , <b>2004</b> , 108, 20291-20295	3.4	20
13	Influence of the irradiation conditions on the effect of radiation on polyethylene. <i>Journal of the Serbian Chemical Society</i> , <b>2004</b> , 69, 1029-1041	0.9	19
12	Protective properties of epoxy coatings electrodeposited on steel electrochemically modified by Zn-Fe alloys. <i>Hemijska Industrija</i> , <b>2004</b> , 58, 450-456	0.6	
11	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> , <b>2003</b> , 47, 49-54	4.8	36
10	The change of crystal symmetry and cation ordering in Li-Mg ferrites. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 336, 286-291	5.7	13
9	Epoxy coatings electrodeposited on aluminium and modified aluminium surfaces. <i>Hemijska Industrija</i> , <b>2002</b> , 56, 468-472	0.6	
8	Effect of ageing on the dielectric relaxation of oriented and gamma irradiated LDPE. <i>Polymer Degradation and Stability</i> , <b>2001</b> , 71, 367-373	4.7	32
7	Electrochemical properties and thermal stability of epoxy coatings electrodeposited on aluminium and modified aluminium surfaces. <i>Journal of the Serbian Chemical Society</i> , <b>2001</b> , 66, 871-880	0.9	1
6	Corrosion behaviour of epoxy coatings electrodeposited on galvanized steel and steel modified by Zn-Ni alloys. <i>Progress in Organic Coatings</i> , <b>2000</b> , 39, 127-135	4.8	47
5	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> , <b>2000</b> , 65, 923-933	0.9	2
4	Influence of orientation and irradiation on stress relaxation of linear low-density polyethylene (LLDPE): a two-process model. <i>Polymer</i> , <b>1999</b> , 40, 2631-2637	3.9	22
3	Corrosion behaviour of epoxy coatings electrodeposited on steel electrochemically modified by Zn-Ni alloy. <i>Electrochimica Acta</i> , <b>1999</b> , 44, 4269-4277	6.7	41

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| 2 | Effect of gamma irradiation on the dielectric relaxation of uniaxially oriented low density polyethylene. <i>Polymer International</i> , <b>1999</b> , 48, 1193-1196           | 3.3 | 15 |
| 1 | The sorption characteristics of epoxy coatings electrodeposited on steel during exposure to different corrosive agents. <i>Corrosion Science</i> , <b>1996</b> , 38, 1513-1523 | 6.8 | 85 |