

# Jessika Rojas

## List of Publications by Citations

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33  
papers

469  
citations

12  
h-index

21  
g-index

33  
ext. papers

572  
ext. citations

3.8  
avg, IF

4.3  
L-index

#	Paper	IF	Citations
33	Facile radiolytic synthesis of ruthenium nanoparticles on graphene oxide and carbon nanotubes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2016</b> , 205, 28-35	3.1	99
32	Production of palladium nanoparticles supported on multiwalled carbon nanotubes by gamma irradiation. <i>Radiation Physics and Chemistry</i> , <b>2012</b> , 81, 16-21	2.5	45
31	Synthesis and characterization of lanthanum phosphate nanoparticles as carriers for (223)Ra and (225)Ra for targeted alpha therapy. <i>Nuclear Medicine and Biology</i> , <b>2015</b> , 42, 614-20	2.1	44
30	Supported transition metal nanomaterials: Nanocomposites synthesized by ionizing radiation. <i>Radiation Physics and Chemistry</i> , <b>2017</b> , 132, 52-64	2.5	37
29	Synthesis of nickel nanoparticles on multi-walled carbon nanotubes by gamma irradiation. <i>Radiation Physics and Chemistry</i> , <b>2013</b> , 89, 51-56	2.5	27
28	Synthesis of rhenium oxide nanoparticles (RexOy) by gamma irradiation. <i>Radiation Physics and Chemistry</i> , <b>2014</b> , 99, 1-5	2.5	22
27	Single step radiolytic synthesis of iridium nanoparticles onto graphene oxide. <i>Applied Surface Science</i> , <b>2015</b> , 357, 2087-2093	6.7	21
26	Mechanical and chemical properties of PVD and cold spray Cr-coatings on Zircaloy-4. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 541, 152420	3.3	17
25	Multifunctional GdVO:Eu core-shell nanoparticles containing Ac for targeted alpha therapy and molecular imaging. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 7985-7997	7.3	16
24	Gadolinium vanadate nanocrystals as carriers of $\alpha$ emitters (225Ac, 227Th) and contrast agents. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 214901	2.5	15
23	Functionalizing Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> with a novel mercaptobenzothiazole derivative: Application to trace fluorometric and colorimetric detection of Fe <sup>3+</sup> in water. <i>Applied Surface Science</i> , <b>2019</b> , 487, 876-888	6.7	15
22	Au@TiO <sub>2</sub> nanocomposites synthesized by X-ray radiolysis as potential radiosensitizers. <i>Applied Surface Science</i> , <b>2018</b> , 427, 702-710	6.7	15
21	Radiation-assisted synthesis of iridium and rhodium nanoparticles supported on polyvinylpyrrolidone. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2014</b> , 302, 555-561	1.5	12
20	Radiolytic synthesis of iridium nanoparticles onto carbon nanotubes. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	11
19	Gamma ray attenuation of hafnium dioxide- and tungsten trioxide-epoxy resin composites. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2019</b> , 322, 707-716	1.5	10
18	X-ray radiation enhancement of gold- TiO <sub>2</sub> nanocomposites. <i>Applied Surface Science</i> , <b>2019</b> , 480, 1147-1155	1.5	9
17	Synthesis and characterization of intrinsically radiolabeled lanthanide phosphate nanoparticles toward biomedical and environmental applications. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	9

16	Effect of surface characteristics and environmental aging on wetting of Cr-coated Zircaloy-4 accident tolerant fuel cladding material. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 535, 152163	3.3	8
15	Tailoring the magnetic properties of FeCo nanopowders prepared by a polyol process. <i>Dalton Transactions</i> , <b>2017</b> , 46, 10364-10373	4.3	5
14	Enhanced X-RAYS degradation of methylene blue in the presence of gold microspheres. <i>Radiation Physics and Chemistry</i> , <b>2019</b> , 156, 73-80	2.5	5
13	Enhanced flow boiling heat transfer on chromium coated zircaloy-4 using cold spray technique for accident tolerant fuel (ATF) materials. <i>Applied Thermal Engineering</i> , <b>2021</b> , 185, 116347	5.8	5
12	Quantitative encapsulation and retention of Th and decay daughters in core-shell lanthanum phosphate nanoparticles. <i>Nanoscale</i> , <b>2020</b> , 12, 9744-9755	7.7	4
11	Highly magnetic Co nanoparticles fabricated by X-ray radiolysis. <i>Radiation Physics and Chemistry</i> , <b>2018</b> , 144, 111-115	2.5	4
10	Self-separation of the adsorbent after recovery of rare-earth metals: Designing a novel non-wettable polymer. <i>Separation and Purification Technology</i> , <b>2021</b> , 259, 118152	8.3	4
9	Radiocatalytic performance of oxide-based nanoparticles for targeted therapy and water remediation. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 173, 108871	2.5	3
8	Encapsulation and retention of <sup>225</sup> Ac, <sup>223</sup> Ra, <sup>227</sup> Th, and decay daughters in zircon-type gadolinium vanadate nanoparticles. <i>Radiochimica Acta</i> , <b>2020</b> , 108, 967-977	1.9	3
7	New concept of radiolytic synthesis of gold nanoparticles in continuous flow. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 188, 109614	2.5	2
6	X-ray synthesis of noble metal nanoparticles onto 2D and 3D graphene oxide supports. <i>Applied Surface Science</i> , <b>2020</b> , 528, 146313	6.7	1
5	The effect of X-ray induced oxygen defects on the photocatalytic properties of titanium dioxide nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 409, 113138	4.7	1
4	Evolution of Microstructure and Surface Characteristics of FeCrAl alloys when Subjected to Flow Boiling Testing. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 557, 153269	3.3	0
3	Influence of Synthesis Parameters on Morphology, Crystalline Structure and Colloidal Stability of Core and Core-Shell LaPO <sub>4</sub> Nanoparticles <b>2016</b> , 57-69		
2	Growth Kinetics of Lanthanum Phosphate Core/Shell Nanoparticles Doped With ce-Tb and Eu <sup>45-66</sup>		
1	Encapsulation of <sup>67</sup> Cu therapeutic radiometal in luminescent lanthanide phosphate core and core-shell nanoparticles. <i>Applied Radiation and Isotopes</i> , <b>2022</b> , 186, 110296	1.7	