Jessika Rojas

List of Publications by Year in Descending Order

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	Encapsulation of 67Cu therapeutic radiometal in luminescent lanthanide phosphate core and core-shell nanoparticles. *Applied Radiation and Isotopes*, **2022**, 186, 110296	1.7	
32	The effect of X-ray induced oxygen defects on the photocatalytic properties of titanium dioxide nanoparticles. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 409, 113138	4.7	1
31	Self-separation of the adsorbent after recovery of rare-earth metals: Designing a novel non-wettable polymer. *Separation and Purification Technology*, **2021**, 259, 118152	8.3	4
30	Enhanced flow boiling heat transfer on chromium coated zircaloy-4 using cold spray technique for accident tolerant fuel (ATF) materials. *Applied Thermal Engineering*, **2021**, 185, 116347	5.8	5
29	New concept of radiolytic synthesis of gold nanoparticles in continuous flow. *Radiation Physics and Chemistry*, **2021**, 188, 109614	2.5	2
28	Evolution of Microstructure and Surface Characteristics of FeCrAl alloys when Subjected to Flow Boiling Testing. *Journal of Nuclear Materials*, **2021**, 557, 153269	3.3	0
27	Effect of surface characteristics and environmental aging on wetting of Cr-coated Zircaloy-4 accident tolerant fuel cladding material. *Journal of Nuclear Materials*, **2020**, 535, 152163	3.3	8
26	Quantitative encapsulation and retention of Th and decay daughters in core-shell lanthanum phosphate nanoparticles. *Nanoscale*, **2020**, 12, 9744-9755	7.7	4
25	Radiocatalytic performance of oxide-based nanoparticles for targeted therapy and water remediation. *Radiation Physics and Chemistry*, **2020**, 173, 108871	2.5	3
24	X-ray synthesis of noble metal nanoparticles onto 2D and 3D graphene oxide supports. *Applied Surface Science*, **2020**, 528, 146313	6.7	1
23	Encapsulation and retention of 225Ac, 223Ra, 227Th, and decay daughters in zircon-type gadolinium vanadate nanoparticles. *Radiochimica Acta*, **2020**, 108, 967-977	1.9	3
22	Mechanical and chemical properties of PVD and cold spray Cr-coatings on Zircaloy-4. *Journal of Nuclear Materials*, **2020**, 541, 152420	3.3	17
21	Gadolinium vanadate nanocrystals as carriers of □emitters (225Ac, 227Th) and contrast agents. *Journal of Applied Physics*, **2019**, 125, 214901	2.5	15
20	Functionalizing Fe3O4@SiO2 with a novel mercaptobenzothiazole derivative: Application to trace fluorometric and colorimetric detection of Fe3+ in water. *Applied Surface Science*, **2019**, 487, 876-888	6.7	15
19	X-ray radiation enhancement of gold- TiO2 nanocomposites. *Applied Surface Science*, **2019**, 480, 1147-1155	6.7	9
18	Gamma ray attenuation of hafnium dioxide- and tungsten trioxide-epoxy resin composites. *Journal of Radioanalytical and Nuclear Chemistry*, **2019**, 322, 707-716	1.5	10
17	Enhanced X-RAYS degradation of methylene blue in the presence of gold microspheres. *Radiation Physics and Chemistry*, **2019**, 156, 73-80	2.5	5

List of Publications

16	Highly magnetic Co nanoparticles fabricated by X-ray radiolysis. *Radiation Physics and Chemistry*, **2018**, 144, 111-115	2.5	4
15	Au@TiO2 nanocomposites synthesized by X-ray radiolysis as potential radiosensitizers. *Applied Surface Science*, **2018**, 427, 702-710	6.7	15
14	Multifunctional GdVO:Eu core-shell nanoparticles containing Ac for targeted alpha therapy and molecular imaging. *Journal of Materials Chemistry B*, **2018**, 6, 7985-7997	7.3	16
13	Synthesis and characterization of intrinsically radiolabeled lanthanide phosphate nanoparticles toward biomedical and environmental applications. *Journal of Nanoparticle Research*, **2018**, 20, 1	2.3	9
12	Supported transition metal nanomaterials: Nanocomposites synthesized by ionizing radiation. *Radiation Physics and Chemistry*, **2017**, 132, 52-64	2.5	37
11	Tailoring the magnetic properties of FeCo nanopowders prepared by a polyol process. *Dalton Transactions*, **2017**, 46, 10364-10373	4.3	5
10	Influence of Synthesis Parameters on Morphology, Crystalline Structure and Colloidal Stability of Core and Core-Shell LaPO4 Nanoparticles **2016**, 57-69		
9	Facile radiolytic synthesis of ruthenium nanoparticles on graphene oxide and carbon nanotubes. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2016**, 205, 28-35	3.1	99
8	Synthesis and characterization of lanthanum phosphate nanoparticles as carriers for (223)Ra and (225)Ra for targeted alpha therapy. *Nuclear Medicine and Biology*, **2015**, 42, 614-20	2.1	44
7	Single step radiolytic synthesis of iridium nanoparticles onto graphene oxide. *Applied Surface Science*, **2015**, 357, 2087-2093	6.7	21
6	Radiolytic synthesis of iridium nanoparticles onto carbon nanotubes. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	11
5	Synthesis of rhenium oxide nanoparticles (RexOy) by gamma irradiation. *Radiation Physics and Chemistry*, **2014**, 99, 1-5	2.5	22
4	Radiation-assisted synthesis of iridium and rhodium nanoparticles supported on polyvinylpyrrolidone. *Journal of Radioanalytical and Nuclear Chemistry*, **2014**, 302, 555-561	1.5	12
3	Synthesis of nickel nanoparticles on multi-walled carbon nanotubes by gamma irradiation. *Radiation Physics and Chemistry*, **2013**, 89, 51-56	2.5	27
2	Production of palladium nanoparticles supported on multiwalled carbon nanotubes by gamma irradiation. *Radiation Physics and Chemistry*, **2012**, 81, 16-21	2.5	45
1	Growth Kinetics of Lanthanum Phosphate Core/Shell Nanoparticles Doped With ce-Tb and Eu45-66		