

Jessika Rojas

List of Publications by Year in descending order

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33
papers

706
citations

623188

14
h-index

552369

26
g-index

33
all docs

33
docs citations

33
times ranked

921
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2016, 205, 28-35.	1.7	172
2	Production of palladium nanoparticles supported on multiwalled carbon nanotubes by gamma irradiation. <i>Radiation Physics and Chemistry</i> , 2012, 81, 16-21.	1.4	55
3	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> , 2015, 42, 614-620.	0.3	54
4	Supported transition metal nanomaterials: Nanocomposites synthesized by ionizing radiation. <i>Radiation Physics and Chemistry</i> , 2017, 132, 52-64.	1.4	51
5	Mechanical and chemical properties of PVD and cold spray Cr-coatings on Zircaloy-4. <i>Journal of Nuclear Materials</i> , 2020, 541, 152420.	1.3	48
6	Synthesis of nickel nanoparticles on multi-walled carbon nanotubes by gamma irradiation. <i>Radiation Physics and Chemistry</i> , 2013, 89, 51-56.	1.4	29
7	Single step radiolytic synthesis of iridium nanoparticles onto graphene oxide. <i>Applied Surface Science</i> , 2015, 357, 2087-2093.	3.1	25
8	Synthesis of rhenium oxide nanoparticles (ReO _x) by gamma irradiation. <i>Radiation Physics and Chemistry</i> , 2014, 99, 1-5.	1.4	23
9	Gadolinium vanadate nanocrystals as carriers of α -emitters (²²⁵ Ac, ²²⁷ Th) and contrast agents. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	22
10	Multifunctional GdVO ₄ :Eu core-shell nanoparticles containing ²²⁵ Ac for targeted alpha therapy and molecular imaging. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7985-7997.	2.9	21
11	Gamma ray attenuation of hafnium dioxide- and tungsten trioxide-epoxy resin composites. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 707-716.	0.7	21
12	Functionalizing Fe ₃ O ₄ @SiO ₂ with a novel mercaptobenzothiazole derivative: Application to trace fluorometric and colorimetric detection of Fe ³⁺ in water. <i>Applied Surface Science</i> , 2019, 487, 876-888.	3.1	19
13	Au@TiO ₂ nanocomposites synthesized by X-ray radiolysis as potential radiosensitizers. <i>Applied Surface Science</i> , 2018, 427, 702-710.	3.1	17
14	Radiation-assisted synthesis of iridium and rhodium nanoparticles supported on polyvinylpyrrolidone. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 555-561.	0.7	15
15	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> , 2021, 185, 116347.	3.0	15
16	Radiolytic synthesis of iridium nanoparticles onto carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	13
17	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> , 2020, 535, 152163.	1.3	12
18	X-ray radiation enhancement of gold- TiO ₂ nanocomposites. <i>Applied Surface Science</i> , 2019, 480, 1147-1155.	3.1	11

#	ARTICLE	IF	CITATIONS
19	Synthesis and characterization of intrinsically radiolabeled lanthanide phosphate nanoparticles toward biomedical and environmental applications. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	10
20	Quantitative encapsulation and retention of ²²⁷ Th and decay daughters in core-shell lanthanum phosphate nanoparticles. <i>Nanoscale</i> , 2020, 12, 9744-9755.	2.8	10
21	Self-separation of the adsorbent after recovery of rare-earth metals: Designing a novel non-wettable polymer. <i>Separation and Purification Technology</i> , 2021, 259, 118152.	3.9	10
22	Enhanced X-RAYS degradation of methylene blue in the presence of gold microspheres. <i>Radiation Physics and Chemistry</i> , 2019, 156, 73-80.	1.4	8
23	New concept of radiolytic synthesis of gold nanoparticles in continuous flow. <i>Radiation Physics and Chemistry</i> , 2021, 188, 109614.	1.4	8
24	Highly magnetic Co nanoparticles fabricated by X-ray radiolysis. <i>Radiation Physics and Chemistry</i> , 2018, 144, 111-115.	1.4	7
25	Tailoring the magnetic properties of Fe _x Co(1-x) nanopowders prepared by a polyol process. <i>Dalton Transactions</i> , 2017, 46, 10364-10373.	1.6	6
26	Radiocatalytic performance of oxide-based nanoparticles for targeted therapy and water remediation. <i>Radiation Physics and Chemistry</i> , 2020, 173, 108871.	1.4	6
27	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> , 2021, 409, 113138.	2.0	6
28	Encapsulation and retention of ²²⁵ Ac, ²²³ Ra, ²²⁷ Th, and decay daughters in zircon-type gadolinium vanadate nanoparticles. <i>Radiochimica Acta</i> , 2020, 108, 967-977.	0.5	5
29	Evolution of Microstructure and Surface Characteristics of FeCrAl alloys when Subjected to Flow Boiling Testing. <i>Journal of Nuclear Materials</i> , 2021, 557, 153269.	1.3	4
30	X-ray synthesis of noble metal nanoparticles onto 2D and 3D graphene oxide supports. <i>Applied Surface Science</i> , 2020, 528, 146313.	3.1	2
31	Encapsulation of ⁶⁷ Cu therapeutic radiometal in luminescent lanthanide phosphate core and core-shell nanoparticles. <i>Applied Radiation and Isotopes</i> , 2022, 186, 110296.	0.7	1
32	Influence of Synthesis Parameters on Morphology, Crystalline Structure and Colloidal Stability of Core and Core-Shell LaPO ₄ Nanoparticles. , 2016, , 57-69.		0
33	Growth Kinetics of Lanthanum Phosphate Core/Shell Nanoparticles Doped With ce-Tb and Eu. , 0, , 45-66.		0