

# Gholam Reza Khayati

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11635865/publications.pdf>

Version: 2024-02-01

45  
papers

542  
citations

623734

14  
h-index

713466

21  
g-index

45  
all docs

45  
docs citations

45  
times ranked

506  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel green one-step synthesis of gold nanoparticles using crocin and their anti-cancer activities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 159, 237-242.	3.8	66
2	An investigation on the application of process control agents in the preparation and consolidation behavior of nanocrystalline silver by mechanochemical method. <i>Advanced Powder Technology</i> , 2012, 23, 808-813.	4.1	27
3	A novel predictive model for estimation of cobalt leaching from waste Li-ion batteries: Application of genetic programming for design. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3999-4007.	6.7	25
4	An advanced reaction model determination methodology in solid-state kinetics based on Arrhenius parameters variation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 175-188.	3.6	24
5	A facile method to synthesis of CdO nanoparticles from spent Ni <sup>2+</sup> /Cd batteries. <i>Materials Letters</i> , 2014, 115, 272-274.	2.6	23
6	Leaching kinetics of valuable metals from waste Li-ion batteries using neural network approach. <i>Journal of Material Cycles and Waste Management</i> , 2018, 20, 2117-2129.	3.0	23
7	Preparation of nanostructure silver powders by mechanical decomposing and mechanochemical reduction of silver oxide. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 1520-1524.	4.2	22
8	A predictive model on size of silver nanoparticles prepared by green synthesis method using hybrid artificial neural network-particle swarm optimization algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 151, 107199.	5.0	22
9	Prediction of hydroxyapatite crystallite size prepared by sol-gel route: gene expression programming approach. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 112-125.	2.4	21
10	Effect of process control agent on the structural and magnetic properties of nano/amorphous Fe <sub>0.7</sub> Nb <sub>0.1</sub> Zr <sub>0.1</sub> Ti <sub>0.1</sub> powders prepared by high energy ball milling. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 449, 297-303.	2.3	21
11	Preparation and kinetic modeling of <sup>62</sup> Co(OH) <sub>2</sub> nanoplates thermal decomposition obtained from spent Li-ion batteries. <i>Advanced Powder Technology</i> , 2017, 28, 2779-2786.	4.1	20
12	PSO-ANN-based prediction of cobalt leaching rate from waste lithium-ion batteries. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 228-239.	3.0	19
13	Isothermal kinetics of mechanochemically and thermally synthesized Ag from Ag <sub>2</sub> O. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 935-942.	4.2	18
14	An improved optimization model to predict the microhardness of Ni/Al <sub>2</sub> O <sub>3</sub> nanocomposite coatings prepared by electrodeposition: A hybrid artificial neural network-modified particle swarm optimization approach. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 179, 109423.	5.0	17
15	Kinetics analysis of non-isothermal decomposition of Ag <sub>2</sub> O-graphite mixture. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 2991-3000.	4.2	15
16	An advanced reaction model determination methodology in solid-state kinetics based on Arrhenius parameters variation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 981-993.	3.6	15
17	Thermodynamic approach to synthesis of silver nanocrystalline by mechanical milling silver oxide. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 543-547.	4.2	14
18	An advanced reaction model determination methodology in solid-state kinetics based on Arrhenius parameters variation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 221-229.	3.6	14

#	ARTICLE	IF	CITATIONS
19	The effect of pulse current density on the microstructure, magnetic, mechanical, and corrosion properties of high-entropy alloy coating Fe-Co-Ni-Mo-W, achieved through electro co-deposition. <i>Intermetallics</i> , 2022, 147, 107610.	3.9	13
20	Improvement of soft magnetic properties of Fe 0.7 Nb 0.1 Zr 0.1 Ti 0.1 amorphous alloy: A kinetic study approach. <i>Journal of Non-Crystalline Solids</i> , 2018, 493, 11-19.	3.1	12
21	Al/Ti5Si3-Al3Ti composite prepared via in-situ surface coating of Ti using tungsten inert gas welding. <i>Journal of Alloys and Compounds</i> , 2019, 808, 151739.	5.5	12
22	Arrhenius parameters determination in non-isothermal conditions for mechanically activated Ag <sub>2</sub> O-graphite mixture. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 3994-4003.	4.2	10
23	Modeling of stress relaxation kinetics of amorphous Fe <sub>0.7</sub> Nb <sub>0.1</sub> Zr <sub>0.1</sub> Ti <sub>0.1</sub> alloy powder: A novel approach based on differential thermal analysis. <i>Powder Technology</i> , 2018, 336, 441-448.	4.2	9
24	A facile fabrication of NiO nanoparticles from spent Ni-Cd batteries. <i>Materials Letters</i> , 2014, 130, 54-56.	2.6	8
25	Investigating the nodulation mechanism of copper cathode based on microscopic approach: As a punch failure factor. <i>Engineering Failure Analysis</i> , 2022, 133, 105970.	4.0	8
26	Reaction pathway and kinetics of CdO nanoparticles prepared from CdCO <sub>3</sub> precursor using thermal decomposition method. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1138-1145.	4.2	7
27	Biosynthesis of Silver-Silver Chloride Nanoparticles Using Fruit Extract of <i>Levisticum Officinale</i> : Characterization and Anticancer Activity Against MDA-MB-468 Cell Lines. <i>Journal of Cluster Science</i> , 2021, 32, 593-599.	3.3	6
28	Thermal kinetics study on the conversion of $\hat{\Gamma}^2$ -MoO <sub>3</sub> to $\hat{\Gamma}^{\pm}$ -MoO <sub>3</sub> ; A molybdenite concentrate derivative as a catalyst. <i>Thermochimica Acta</i> , 2022, 715, 179289.	2.7	6
29	The Effect of Mechanical Activation on Non-isothermal Decomposition Kinetics of Ag <sub>2</sub> O-Graphite Mixture. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 7503-7512.	1.1	5
30	A kinetic study approach for in-situ preparation of amorphous Ni based nanocomposite reinforced by nanocrystalline Ni-Ti shape memory alloy. <i>Journal of Non-Crystalline Solids</i> , 2019, 524, 119652.	3.1	5
31	Investigation of spring back phenomenon in the 316L stainless steel cathode blank based on the changes in electrical resistivity and magnetic properties due to the residual stress and martensite phase formation: An industrial failure. <i>Engineering Failure Analysis</i> , 2021, 126, 105473.	4.0	5
32	A new feature extraction technique based on improved owl search algorithm: a case study in copper electrorefining plant. <i>Neural Computing and Applications</i> , 0, , 1.	5.6	5
33	Ammonia leaching of MoO <sub>3</sub> concentrate: finding the reaction mechanism and kinetics analysis. <i>Chemical Papers</i> , 2022, 76, 3227-3237.	2.2	5
34	Fabrication of in-situ Ni/Ni <sub>3</sub> Ti-NiTi-Fe <sub>2</sub> Ti- $\hat{\Gamma}^2$ Cr <sub>2</sub> Ti reinforced Ti-based composite coating using tungsten inert gas processing. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159697.	5.5	4
35	Using the group method for the synthesis of copper/ZrO <sub>2</sub> nanocomposites to achieve high wear resistance by ball milling and spark plasma sintering. <i>Ceramics International</i> , 2022, 48, 17576-17588.	4.8	4
36	State-of-the-art predictive modeling of hydroxyapatite nanocrystallite size: a hybrid density functional theory and artificial neural networks. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 641-651.	2.4	3

#	ARTICLE	IF	CITATIONS
37	Modeling and optimization of chemical composition of nano/amorphous Fe <sub>2</sub> Ni <sub>2</sub> B <sub>2</sub> C <sub>2</sub> alloy prepared via high-energy ball milling with enhanced soft magnetic properties; A mixture design approach. Journal of Alloys and Compounds, 2020, 841, 155646.	5.5	3
38	Facile decoration of CdS nanoparticles on TiO <sub>2</sub> : robust photocatalytic activity under LED illumination. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, .	0.7	2
39	An improved optimization model for predicting Pb recovery efficiency from residual of liberator cells: a hybrid of support vector regression and modified tunicate swarm algorithm. Journal of Material Cycles and Waste Management, 2021, 23, 1855-1872.	3.0	2
40	Defined an Optimized Molding for Physical and Mechanical Properties of Wâ€Cu Nanocomposite Through Spark Plasma Sintering Using Gene Expression Programming: The Combination of Artificial Intelligence and Material Science. SN Computer Science, 2022, 3, 1.	3.6	2
41	Modeling of manganese recovery from waste Li-ion batteries by gene expression programming. Journal of Material Cycles and Waste Management, 2021, 23, 2218-2231.	3.0	0
42	Mechanism and kinetics of gold leaching from copper anode slime using BmimHSO <sub>4</sub> as green solvent. International Journal of Chemical Kinetics, 0, , .	1.6	0
43	Green and cost-effective synthesis, characterization and DFT studying of silver nanoparticles for improving their biological properties by opium syrup as biomedical drug and good biocompatibility. Inorganic and Nano-Metal Chemistry, 0, , 1-15.	1.6	0
44	Anti-Cancer Evaluation of Mineral Colloids Against MCF-7 Cell Lines: An Investigation Through Thermal Spring Water. Macromolecular Research, 0, , 1.	2.4	0
45	Study the failure of casted copper anode: the formation of bumps defects on the surface of the anode during casting. Engineering Failure Analysis, 2022, , 106426.	4.0	0