

Sergey I Roslyakov

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Solution Combustion Synthesis of Nano-Crystalline Metallic Materials: Mechanistic Studies. Journal of Physical Chemistry C, 2013, 117, 24417-24427.	3.1	170
2	Ultrasmall γ -Fe ₂ O ₃ Superparamagnetic Nanoparticles with High Magnetization Prepared by Template-Assisted Combustion Process. Journal of Physical Chemistry C, 2014, 118, 16264-16271.	3.1	104
3	In Situ Preparation of Highly Stable Ni-Based Supported Catalysts by Solution Combustion Synthesis. Journal of Physical Chemistry C, 2014, 118, 26191-26198.	3.1	58
4	Solution Combustion Synthesis of Copper Nanopowders: The Fuel Effect. Combustion Science and Technology, 2017, 189, 1878-1890.	2.3	33
5	Spray Solution Combustion Synthesis of Metallic Hollow Microspheres. Journal of Physical Chemistry C, 2016, 120, 7165-7171.	3.1	30
6	Solution combustion synthesis of nano-catalysts with a hierarchical structure. Journal of Catalysis, 2018, 364, 112-124.	6.2	29
7	Effect of the residual water content in gels on solution combustion synthesis temperature. Journal of Sol-Gel Science and Technology, 2020, 93, 251-261.	2.4	20
8	Solution combustion synthesis of single-phase bimetallic nanomaterials. Nano Structures Nano Objects, 2021, 26, 100727.	3.5	19
9	One-step synthesis of pure γ -FeNi alloy by reactive sol-gel combustion route: mechanism and properties. Journal of Sol-Gel Science and Technology, 2020, 94, 310-321.	2.4	18
10	Nanoscale Metastable μ -Fe ₃ N Ferromagnetic Materials by Self-Sustained Reactions. Inorganic Chemistry, 2019, 58, 5583-5592.	4.0	17
11	Cellulose assisted combustion synthesis of high surface area Ni-MgO catalysts: Mechanistic studies. Combustion and Flame, 2020, 221, 462-475.	5.2	13
12	Solution combustion synthesis: Dynamics of phase formation for highly porous nickel. Doklady Physical Chemistry, 2013, 449, 48-51.	0.9	11
13	Ceramics from self-sustained reactions: Recent advances. Journal of the European Ceramic Society, 2020, 40, 2512-2526.	5.7	11
14	Effects of Precursor Concentration in Solvent and Nanomaterials Room Temperature Aging on the Growth Morphology and Surface Characteristics of Ni@NiO Nanocatalysts Produced by Dendrites Combustion during SCS. Applied Sciences (Switzerland), 2019, 9, 4925.	2.5	10
15	Influence of Preheating Temperature on Solution Combustion Synthesis of Ni@NiO Nanocomposites: Mathematical Model and Experiment. International Journal of Self-Propagating High-Temperature Synthesis, 2018, 27, 207-215.	0.5	8
16	One-step solution combustion synthesis of nanostructured transition metal antiperovskite nitride and alloy. Nano Structures Nano Objects, 2021, 28, 100796.	3.5	7
17	Optimization of the fabrication parameters of the Co ₃ O ₄ /SiO ₂ supported ceramic catalyst for CO gas conversion: Design of experiment for solution combustion synthesis. Ceramics International, 2021, 47, 12935-12940.	4.8	1
18	Spray Solution Combustion Synthesis of NiCu Hollow Spheres. Lecture Notes in Mechanical Engineering, 2022, , 11-17.	0.4	1