

Solution Combustion Synthesis of Nanoscale Materials

Chemical Reviews

116, 14493-14586

DOI: [10.1021/acs.chemrev.6b00279](https://doi.org/10.1021/acs.chemrev.6b00279)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Effect of fuel type on the microstructure and magnetic properties of solution combusted Fe ₃ O ₄ powders. <i>Ceramics International</i> , 2017, 43, 7448-7453.	2.3	57
2	Influence of atomic structure on the nano-nickel-based catalyst activity produced by solution combustion synthesis in the hydrogenation of maleic acid. <i>Journal of Catalysis</i> , 2017, 348, 9-21.	3.1	18
3	Revisiting the catalytic activity of a doped SrFeO ₃ for water pollutants removal: Effect of light and temperature. <i>Applied Catalysis B: Environmental</i> , 2017, 207, 174-181.	10.8	65
4	Synthesis of 3-D Graphene via Combustion Synthesis of Magnesium and Calcium/Magnesium Oxalates. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M3090-M3096.	0.9	8
5	Magnetic and dielectric properties of magnesium substituted cobalt ferrite samples synthesized via one step calcination free solution combustion method. <i>Ceramics International</i> , 2017, 43, 7305-7310.	2.3	43
6	Mixture of fuels for solution combustion synthesis of porous Fe ₃ O ₄ powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 432, 24-29.	1.0	46
7	Influence of fuel type on microwave-enhanced fabrication of KOH/Ca ₁₂ Al ₁₄ O ₃₃ nanocatalyst for biodiesel production via microwave heating. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 75, 148-155.	2.7	43
8	Effect of Silver on Plasmonic, Photocatalytic, and Cytotoxicity of Gold in AuAgZnO Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9077-9088.	1.5	28
9	Affinity study on bovine serum albumin's peptides to amphiphilic gold nanoparticles: A test of epitopes and non-epitopes. <i>Applied Surface Science</i> , 2017, 416, 845-852.	3.1	4
10	Solution Combustion Synthesis of Copper Nanopowders: The Fuel Effect. <i>Combustion Science and Technology</i> , 2017, 189, 1878-1890.	1.2	33
11	Catalytic Performance of Pd/Co ₃ O ₄ on SiC and ZrO ₂ Open Cell Foams for Process Intensification of Methane Combustion in Lean Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6625-6636.	1.8	36
12	Effect of glycine on one-step solution combustion synthesis of magnetite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017, 719, 288-295.	2.8	50
13	Catalytic combustion of residual methane on alumina monoliths and open cell foams coated with Pd/Co ₃ O ₄ . <i>Chemical Engineering Journal</i> , 2017, 326, 339-349.	6.6	37
14	Tailored Solution Combustion Synthesis of High Performance ZnCo ₂ O ₄ Anode Materials for Lithium-Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7173-7183.	1.8	41
15	A simple combustion method for the synthesis of multi-functional ZrO ₂ /CuO nanocomposites: Excellent performance as Sunlight photocatalysts and enhanced latent fingerprint detection. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 97-115.	10.8	89
16	Hydrothermally prepared nanosized and mesoporous Ce _{0.4} Zr _{0.6} O ₂ solid solutions with shape dependence in photocatalysis for the degradation of methylene blue. <i>RSC Advances</i> , 2017, 7, 17020-17029.	1.7	6
17	Structural characterization and enhanced luminescence of Eu-doped 2CeO ₂ ·0.5La ₂ O ₃ composite phosphor powders by a facile solution combustion synthesis. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4302-4309.	2.7	25
18	Effects of the fuel type and fuel content on the specific surface area and magnetic properties of solution combusted CoFe ₂ O ₄ nanoparticles. <i>Ceramics International</i> , 2017, 43, 8262-8268.	2.3	51

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19	Ammonium nitrate-enhanced microwave solution combustion fabrication of CuO/ZnO/Al ₂ O ₃ nanocatalyst for fuel cell grade hydrogen supply. <i>Microporous and Mesoporous Materials</i> , 2017, 245, 82-93.	2.2	17
20	Combustion and materials synthesis. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2017, 26, 143-144.	0.2	2
21	Solution combustion synthesis for preparation of structured catalysts: A mini-review on process intensification for energy applications and pollution control. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2017, 26, 166-186.	0.2	41
22	The critical conditions for thermal explosion in a system heated at a constant rate. <i>Combustion and Flame</i> , 2017, 186, 211-219.	2.8	21
23	Solution-combustion synthesis of nanomaterials for lithium storage. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2017, 26, 187-198.	0.2	8
24	Role of Combustion Chemistry in Low-Temperature Deposition of Metal Oxide Thin Films from Solution. <i>Chemistry of Materials</i> , 2017, 29, 9480-9488.	3.2	30
25	Magnetic properties of Li _{0.5} Fe _{2.5} O ₄ nanoparticles synthesized by solution combustion method. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	34
26	Metal Phosphides and Phosphates-based Electrodes for Electrochemical Supercapacitors. <i>Small</i> , 2017, 13, 1701530.	5.2	318
27	WC-Ti-Al ₂ O ₃ composite powder preparation by self-propagating high-temperature synthesis route. <i>Ceramics International</i> , 2017, 43, 15685-15693.	2.3	19
28	One-step alkali chloride-assisted solution combustion synthesis of 3YSZ nanopowders with ultrahigh specific surface area. <i>Ceramics International</i> , 2017, 43, 16043-16047.	2.3	9
29	Dielectric properties of CoCrFeO ₄ nano-powder prepared by solution self combustion synthesis. <i>Ceramics International</i> , 2017, 43, 16915-16918.	2.3	13
30	Uncovering the 3D Structure of Combustion-Synthesized Noble Metal-Ceria Nanocatalysts. <i>ChemCatChem</i> , 2017, 9, 4607-4613.	1.8	8
31	Mössbauer spectroscopy of NiFe ₂ O ₄ nanoparticles: The effect of Ni ²⁺ in the Fe ³⁺ local microenvironment in both tetrahedral and octahedral sites. <i>Materials Chemistry and Physics</i> , 2017, 202, 159-168.	2.0	22
32	Structure sensitive photocatalytic reduction of nitroarenes over TiO ₂ . <i>Scientific Reports</i> , 2017, 7, 8783.	1.6	173
33	Catalytic Palladium Film Deposited by Scalable Low-Temperature Aqueous Combustion. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33298-33307.	4.0	4
34	Synthesis, CO ₂ absorption property and densification of Li ₄ SiO ₄ powder by glycine-nitrate solution combustion method and its comparison with solid state method. <i>Journal of Alloys and Compounds</i> , 2017, 725, 461-471.	2.8	30
35	Effects of pH value on the microstructure and magnetic properties of solution combusted Fe ₃ O ₄ powders. <i>Ceramics International</i> , 2017, 43, 13729-13734.	2.3	18
36	TiO ₂ -doped Mn ₂ O ₃ -Na ₂ WO ₄ /SiO ₂ catalyst for oxidative coupling of methane: Solution combustion synthesis and MnTiO ₃ -dependent low-temperature activity improvement. <i>Applied Catalysis A: General</i> , 2017, 544, 77-83.	2.2	54

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38	Combustion synthesis of zero-, one-, two- and three-dimensional nanostructures: Current trends and future perspectives. <i>Progress in Energy and Combustion Science</i> , 2017, 63, 79-118.	15.8	157
39	Aqueous phase reforming of polyols from glucose degradation by reaction over Pt/alumina catalysts modified by Ni or Co. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18853-18864.	3.8	30
40	Pulse combustion reactor as a fast and scalable synthetic method for preparation of Li-ion cathode materials. <i>Journal of Power Sources</i> , 2017, 363, 218-226.	4.0	10
41	Role of silver doping on the defects related photoluminescence and antibacterial behaviour of zinc oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 191-199.	2.5	58
42	Nanomaterials for environmental and energy applications prepared by solution combustion based-methodologies: Role of the fuel. <i>Materials Today: Proceedings</i> , 2017, 4, 5507-5516.	0.9	17
43	Microwave-assisted solution combustion synthesis of Fe ₃ O ₄ powders. <i>Ceramics International</i> , 2017, 43, 14756-14762.	2.3	45
44	Synthesis, characterization and influence of fuel to oxidizer ratio on the properties of spinel ferrite (MFe ₂ O ₄ , M = Co and Ni) prepared by solution combustion method. <i>Ceramics International</i> , 2017, 43, 15002-15009.	2.3	51
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46	Microwave energy application to combustion synthesis: A comprehensive review of recent advancements and most promising perspectives. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2017, 26, 221-233.	0.2	12
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48	Hematite nanoparticle clusters with remarkably high magnetization synthesized from water-treatment waste by one-step sharp high-temperature dehydration. <i>RSC Advances</i> , 2017, 7, 51298-51302.	1.7	7
49	Hydrogen-rich gas production by steam reforming of n-dodecane. Part II: Stability, regenerability and sulfur poisoning of low loading Rh-based catalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 317-326.	10.8	56
50	Structural and magnetic properties of ZnFe _{2-x} Ln _x O ₄ nanoparticles synthesized by solution combustion method. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 442, 468-473.	1.0	9
51	Solution Combustion Synthesis of nanoscale Cu-Cr-O spinels: Mechanism, properties and catalytic activity in CO oxidation. <i>Ceramics International</i> , 2017, 43, 11733-11742.	2.3	14
52	The role of fuel to oxidizer ratio in solution combustion synthesis of TiO ₂ and its influence on photocatalysis. <i>Journal of Materials Research</i> , 2017, 32, 2764-2772.	1.2	33
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54	Hybrid-coprecipitation vs. combustion synthesis of Mg-Al spinel based nanocatalyst for efficient biodiesel production. <i>Energy Conversion and Management</i> , 2018, 160, 220-229.	4.4	39

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56	Barium hexaferrite thick-films for ozone detection at low temperature. <i>Solid State Ionics</i> , 2018, 320, 24-32.	1.3	10
57	Rational Design of Nanosized Light Elements for Hydrogen Storage: Classes, Synthesis, Characterization, and Properties. <i>Advanced Materials Technologies</i> , 2018, 3, 1700298.	3.0	34
58	Structural and magnetic properties of Mn _{0.8} Zn _{0.2} Fe ₂ O ₄ /PVA composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 458, 80-84.	1.0	5
59	Nanostructural evolution in mesoporous networks using in situ High-Speed Temperature Scanner. <i>Ceramics International</i> , 2018, 44, 12265-12272.	2.3	9
60	Photocatalytic properties of ZnO powders synthesized by conventional and microwave-assisted solution combustion method. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 711-718.	1.1	13
61	Starch-Derived Hierarchical Porous Carbon with Controlled Porosity for High Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7292-7303.	3.2	115
62	Zn-enriched PtZn nanoparticle electrocatalysts synthesized by solution combustion for ethanol oxidation reaction in an alkaline medium. <i>MRS Communications</i> , 2018, 8, 411-419.	0.8	10
63	Synthesis of GAGG:Ce ³⁺ powder for ceramics using mechanochemical and solution combustion methods. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3837-3749.	1.9	7
64	Revisit of layered sodium manganese oxides: achievement of high energy by Ni incorporation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8558-8567.	5.2	52
65	Solution combustion synthesis of ZnO powders using mixture of fuels in closed system. <i>Ceramics International</i> , 2018, 44, 12684-12690.	2.3	28
66	A Mineral Magnetic Approach to Determine Paleo-firing Temperatures in the Neolithic Settlement Site of Mursalevo-Deveboaz (SW Bulgaria). <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2522-2538.	1.4	18
67	Catalytic removal of soot particles over MnCo ₂ O ₄ catalysts prepared by the auto-combustion method. <i>Chemical Papers</i> , 2018, 72, 1973-1979.	1.0	4
68	Solution Combustion Synthesis of Ni/NiO/ZnO Nanocomposites for Photodegradation of Methylene Blue Under Ultraviolet Irradiation. <i>Journal of Electronic Materials</i> , 2018, 47, 2703-2709.	1.0	12
69	Solution combustion synthesis of ZnO powders using CTAB as fuel. <i>Ceramics International</i> , 2018, 44, 7741-7745.	2.3	39
70	Magnetic CoFe ₂ O ₄ @ melamine based hyper-crosslinked polymer: A multivalent dendronized nanostructure for fast bacteria capturing from real samples. <i>Chemical Engineering Research and Design</i> , 2018, 116, 14-21.	2.7	6
71	Synthesis of nanocrystalline spinel ferrite (MFe ₂ O ₄ , M = Zn and Mg) by solution combustion method: Influence of fuel to oxidizer ratio. <i>Journal of Alloys and Compounds</i> , 2018, 742, 577-586.	2.8	54
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74	One-Step Solution Combustion Synthesis of Cobalt Nanopowder in Air Atmosphere: The Fuel Effect. <i>Inorganic Chemistry</i> , 2018, 57, 1464-1473.	1.9	33
75	Solution Combustion Synthesis of High Surface Area CeO ₂ Nanopowders for Catalytic Applications: Reaction Mechanism and Properties. <i>ACS Applied Nano Materials</i> , 2018, 1, 675-685.	2.4	49
76	Magnetic and microwave absorption properties of SrZnCoFe ₁₆ O ₂₇ powders synthesized by solution combustion method. <i>Journal of Alloys and Compounds</i> , 2018, 739, 211-217.	2.8	10
77	Parametric Optimisation of Solution Combustion Synthesis Catalysts and Their Application for the Aqueous Hydrogenation of Maleic Acid. <i>Catalysis Letters</i> , 2018, 148, 764-778.	1.4	6
78	Syngas production by steam and oxy-steam reforming of biogas on monolith-supported CeO ₂ -based catalysts. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11731-11744.	3.8	41
79	Dual Functions of Potassium Antimony(III) Tartrate in Tuning Antimony/Carbon Composites for Long-Life Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705744.	7.8	42
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81	Rapid synthesis of interconnected CuCrO ₂ nanostructures: A promising electrode material for photoelectrochemical fuel generation. <i>Electrochimica Acta</i> , 2018, 272, 22-32.	2.6	21
82	Ultrafast synthesis of amorphous VO _x embedded into 3D struttred amorphous carbon frameworksâ€“short-range order in dual-amorphous composites boosts lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7053-7061.	5.2	13
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85	Enhanced oxygen storage capacity of cation-ordered ceriumâ€“zirconium oxide induced by titanium substitution. <i>Chemical Communications</i> , 2018, 54, 3528-3531.	2.2	6
86	Retention of high dielectric constant sodium beta alumina via solution combustion: Role of aluminum ions complexation with fuel. <i>Ceramics International</i> , 2018, 44, 1500-1511.	2.3	14
87	Mesoporous metal - silica materials: Synthesis, catalytic and thermal properties. <i>Microporous and Mesoporous Materials</i> , 2018, 257, 175-184.	2.2	18
88	Hydrogen generation from hydrous hydrazine over Ni/CeO ₂ catalysts prepared by solution combustion synthesis. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 409-416.	10.8	87
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92	Solution combustion synthesis of nanostructured iron oxides with controllable morphology, composition and electrochemical performance. <i>Ceramics International</i> , 2018, 44, 4237-4247.	2.3	26
93	The mechanochemical and solution combustion syntheses of cerium-doped lutetium oxyorthosilicate powder. <i>Journal of Alloys and Compounds</i> , 2018, 734, 258-265.	2.8	5
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98	Cellulose assisted combustion synthesis of nanomaterials for energy conversion applications. , 2018, , .		0
99	Preparation and characterization of Ti/Sb-SnO ₂ /Ni-Sb-SnO ₂ anode; application in electrochemical degradation of Acid Red I dye. <i>Materials Today: Proceedings</i> , 2018, 5, 25006-25015.	0.9	6
100	Preparation of Nanoparticles via Cellulose-Assisted Combustion Synthesis. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2018, 27, 141-153.	0.2	16
101	Microwave-Assisted Catalytic Solvolysis of Lignin to Phenols: Kinetics and Product Characterization. <i>ACS Omega</i> , 2018, 3, 15076-15085.	1.6	13
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108	Direct Z-Scheme Cs ₂ O/Bi ₂ O ₃ /ZnO Heterostructures as Efficient Sunlight-Driven Photocatalysts. <i>ACS Omega</i> , 2018, 3, 12260-12269.	1.6	60

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109	Solution Combustion Synthesis of Complex Oxide Semiconductors. International Journal of Self-Propagating High-Temperature Synthesis, 2018, 27, 129-140.	0.2	14
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111	Fully Solution-Processed Low-Voltage Driven Transparent Oxide Thin Film Transistors. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800192.	0.8	8
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126	Nanoscale self-assembly of thermoelectric materials: a review of chemistry-based approaches. Nanotechnology, 2018, 29, 432001.	1.3	50

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127	Controlled synthesis of Na _{0.44} MnO ₂ cathode material for sodium ion batteries with superior performance through urea-based solution combustion synthesis. <i>Electrochimica Acta</i> , 2018, 283, 1560-1567.	2.6	25
128	Pt-Co and Pt-Ni Catalysts of Low Metal Content for H ₂ Production by Reforming of Oxygenated Hydrocarbons and Comparison with Reported Pt-Based Catalysts. <i>International Journal of Chemical Engineering</i> , 2018, 2018, 1-10.	1.4	5
129	Catalytic synthesis of fatty acid methyl esters from <i>Madhuca indica</i> oil in supercritical methanol. <i>Energy Conversion and Management</i> , 2018, 173, 412-425.	4.4	9
130	One-step solution combustion synthesis of K _{0.5} Na _{0.5} NbO ₃ powders at a large-scale. <i>Ceramics International</i> , 2018, 44, 18279-18284.	2.3	6
131	Low-cost, large-scale, one-pot synthesis of C/Ni ₃ (NO ₃) ₂ (OH) ₄ composites for high performance supercapacitor. <i>Materials Chemistry and Physics</i> , 2018, 217, 291-299.	2.0	11
132	Photocatalytic degradation performance of Nd ³⁺ doped V ₂ O ₅ nanostructures. <i>Materials Research Express</i> , 2018, 5, 095007.	0.8	22
133	Synthesis of Highly Efficient Bifunctional Ag/Co ₃ O ₄ Catalyst for Oxygen Reduction and Oxygen Evolution Reactions in Alkaline Medium. <i>ACS Omega</i> , 2018, 3, 7745-7756.	1.6	53
134	Solution combustion synthesis of CoFe ₂ O ₄ powders using mixture of CTAB and glycine fuels. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 743-750.	1.1	20
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