Athanasios G Konstandopoulos

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fundamental Studies of Diesel Particulate Filters: Transient Loading, Regeneration and Aging. , 0, , .		331
2	Evaluation of porous silicon carbide monolithic honeycombs as volumetric receivers/collectors of concentrated solar radiation. Solar Energy Materials and Solar Cells, 2007, 91, 474-488.	6.2	185
3	Solar Hydrogen Production by a Two-Step Cycle Based on Mixed Iron Oxides. Journal of Solar Energy Engineering, Transactions of the ASME, 2006, 128, 125-133.	1.8	140
4	Solar hydrogen: fuel of the near future. Energy and Environmental Science, 2010, 3, 279.	30.8	126
5	Microstructural Properties of Soot Deposits in Diesel Particulate Traps. , 0, , .		112
6	Inertial Contributions to the Pressure Drop of Diesel Particulate Filters. , 0, , .		97
7	Cobalt oxide based structured bodies as redox thermochemical heat storage medium for future CSP plants. Solar Energy, 2014, 108, 146-163.	6.1	95
8	Reciprocating flow regeneration of soot filters. Combustion and Flame, 2000, 121, 488-500.	5.2	93
9	Calcium oxide based materials for thermochemical heat storage in concentrated solar power plants. Solar Energy, 2015, 122, 215-230.	6.1	89
10	Hydrogen production via solar-aided water splitting thermochemical cycles: Combustion synthesis and preliminary evaluation of spinel redox-pair materials. International Journal of Hydrogen Energy, 2012, 37, 8964-8980.	7.1	85
11	Particle sticking/rebound criteria at oblique impact. Journal of Aerosol Science, 2006, 37, 292-305.	3.8	83
12	Flow Resistance Descriptors for Diesel Particulate Filters: Definitions, Measurements and Testing. , 0, ,		82
13	Evolution of aggregate size and fractal dimension during Brownian coagulation. Journal of Aerosol Science, 2001, 32, 1399-1420.	3.8	80
14	Progress in Diesel Particulate Filter Simulation. , 2005, , .		80
15	Cobalt/cobaltous oxide based honeycombs for thermochemical heat storage in future concentrated solar power installations: Multi-cyclic assessment and semi-quantitative heat effects estimations. Solar Energy, 2016, 133, 394-407.	6.1	79
16	Hydrogen production in solar reactors. Catalysis Today, 2007, 127, 265-277.	4.4	71
17	Hydrogen production via sulfur-based thermochemical cycles: Part 2: Performance evaluation of Fe2O3-based catalysts for the sulfuric acid decomposition step. International Journal of Hydrogen Energy, 2011, 36, 6496-6509.	7.1	71
18	Hydrogen production via solarâ€aided water splitting thermochemical cycles with nickel ferrite: Experiments and modeling. AICHE Journal, 2013, 59, 1213-1225.	3.6	67

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19	Multi-channel simulation of regeneration in honeycomb monolithic diesel particulate filters. Chemical Engineering Science, 2003, 58, 3273-3283.	3.8	65
20	Deposit growth dynamics: particle sticking and scattering phenomena. Powder Technology, 2000, 109, 262-277.	4.2	62
21	Aerosol spray pyrolysis synthesis of water-splitting ferrites for solar hydrogen production. Granular Matter, 2008, 10, 113-122.	2.2	53
22	Hydrogen production via sulfur-based thermochemical cycles: Part 1: Synthesis and evaluation of metal oxide-based candidate catalyst powders for the sulfuric acid decomposition step. International Journal of Hydrogen Energy, 2011, 36, 2831-2844.	7.1	53
23	Material development and assessment of an energy storage concept based on the CaO-looping process. Solar Energy, 2017, 150, 298-309.	6.1	51
24	Toxicity assessment and comparison between two types of iron oxide nanoparticles in Mytilus galloprovincialis. Aquatic Toxicology, 2016, 172, 9-20.	4.0	49
25	Update on the Science and Technology of Diesel Particulate Filters. KONA Powder and Particle Journal, 2008, 26, 36-65.	1.7	46
26	Cluster–Cluster Aggregation Kinetics and Primary Particle Growth of Soot Nanoparticles in Flame by Light Scattering and Numerical Simulations. Journal of Colloid and Interface Science, 2002, 247, 33-46.	9.4	44
27	Multi-cyclic evaluation of composite CaO-based structured bodies for thermochemical heat storage via the CaO/Ca(OH)2 reaction scheme. Solar Energy, 2017, 146, 65-78.	6.1	43
28	Advances in the science and technology of diesel particulate filter simulation. Advances in Chemical Engineering, 2007, , 213-294.	0.9	38
29	Study of Basic Oxidation and Combustion Characteristics of Aluminum Nanoparticles under Enginelike Conditions. Energy & Fuels, 2014, 28, 3430-3441.	5.1	37
30	Catalytic Filter Systems with Direct and Indirect Soot Oxidation Activity. , 2005, , .		33
31	Hydrogen production via sulfur-based thermochemical cycles: Part 3: Durability and post-characterization of silicon carbide honeycomb substrates coated with metal oxide-based candidate catalysts for the sulfuric acid decomposition step. International Journal of Hydrogen Fnerov. 2012, 37, 8190-8203.	7.1	33
32	Impact of Combination of EGR, SCR, and DPF Technologies for the Low-Emission Rail Diesel Engines. Emission Control Science and Technology, 2015, 1, 213-225.	1.5	28
33	Gas and liquid phase fuels desulphurization for hydrogen production via reforming processes. International Journal of Hydrogen Energy, 2009, 34, 4953-4962.	7.1	27
34	Morphology and mobility of synthetic colloidal aggregates. Journal of Colloid and Interface Science, 2014, 417, 27-36.	9.4	27
35	A Methodology for the Fast Evaluation of the Effect of Ash Aging on the Diesel Particulate Filter Performance. , 0, , .		26
36	Diesel Fuel Desulfurization via Adsorption with the Aid of Activated Carbon: Laboratory- and Pilot-Scale Studies. Energy & amp; Fuels, 2015, 29, 5640-5648.	5.1	26

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37	Study of Brake Wear Particle Emissions of a Minivan on a Chassis Dynamometer. Emission Control Science and Technology, 2018, 4, 271-278.	1.5	26
38	Effect of soot layer microstructure on diesel particulate filter regeneration. AICHE Journal, 2005, 51, 2534-2546.	3.6	25
39	Inertial deposition of particles from potential flows past cylinder arrays. Journal of Aerosol Science, 1993, 24, 471-483.	3.8	23
40	Improved kinetic model for water splitting thermochemical cycles using Nickel Ferrite. International Journal of Hydrogen Energy, 2014, 39, 6317-6327.	7.1	23
41	Soot Oxidation Kinetics in Diesel Particulate Filters. , 2007, , .		22
42	Improved Transfer Coefficients for Wall-Flow Monolithic Catalytic Reactors: Energy and Momentum Transport. Industrial & Engineering Chemistry Research, 2012, 51, 13062-13072.	3.7	22
43	Study of Oxidation and Combustion Characteristics of Iron Nanoparticles under Idealized and Enginelike Conditions. Energy & Fuels, 2016, 30, 4318-4330.	5.1	21
44	Soot Oxidation Kinetics of Different Ceria Nanoparticle Catalysts. Emission Control Science and Technology, 2015, 1, 247-253.	1.5	20
45	A Multi-Reactor Assembly for Screening of Diesel Particulate Filters. , 2006, , .		18
46	One-dimensional model of solar thermal reactors for the co-production of hydrogen and carbon black from methane decomposition. International Journal of Hydrogen Energy, 2011, 36, 189-202.	7.1	17
47	Development and evaluation of materials for thermochemical heat storage based on the CaO/CaCO3 reaction couple. AIP Conference Proceedings, 2016, , .	0.4	17
48	Thermochemical storage for CSP via redox structured reactors/heat exchangers: The RESTRUCTURE project. AIP Conference Proceedings, 2017, , .	0.4	16
49	Catalytic Nano-structured Materials for Next Generation Diesel Particulate Filters. SAE International Journal of Materials and Manufacturing, 0, 1, 189-198.	0.3	15
50	Emission Reduction Technologies for the Future Low Emission Rail Diesel Engines: EGR vs SCR. , 2013, , .		15
51	Friction Coefficient and Mobility Radius of Fractal-Like Aggregates in the Transition Regime. Aerosol Science and Technology, 2014, 48, 1320-1331.	3.1	14
52	Twoâ€dimensional model of methane thermal decomposition reactors with radiative heat transfer and carbon particle growth. AICHE Journal, 2012, 58, 2545-2556.	3.6	13
53	Shortlisting of Composite CaO-Based Structured Bodies Suitable for Thermochemical Heat Storage with the CaO/Ca(OH)2 Reaction Scheme. Energy & Fuels, 2017, 31, 6548-6559.	5.1	13
54	Transportation and solar-aided utilization of CO2: Technoeconomic analysis of spanning routes of CO2 conversion to solar fuels. Journal of CO2 Utilization, 2019, 30, 142-157.	6.8	13

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55	Wall-scale Reaction Models in Diesel Particulate Filters. , 0, , .		12
56	Effect of seeding on hydrogen and carbon particle production in a 10ÂMW solar thermal reactor for methane decomposition. International Journal of Hydrogen Energy, 2012, 37, 16570-16580.	7.1	11
57	A Heterogeneous Multiscale Dynamic Model for Simulation of Catalytic Reforming Reactors. International Journal of Chemical Kinetics, 2016, 48, 239-252.	1.6	11
58	Experimental proof of concept of a pilot-scale thermochemical storage unit. AIP Conference Proceedings, 2017, , .	0.4	11
59	Oxidative Reactivity of Particulate Samples from Different Diesel Combustion Systems and Its Relation to Structural and Spectral Characteristics of Soot. Emission Control Science and Technology, 2019, 5, 99-123.	1.5	11
60	Oxide particles as combined heat storage medium and sulphur trioxide decomposition catalysts for solar hydrogen production through sulphur cycles. International Journal of Hydrogen Energy, 2019, 44, 9830-9840.	7.1	10
61	Development of an on-line exposure system to determine freshly produced diesel engine emission-induced cellular effects. Toxicology in Vitro, 2013, 27, 1746-1752.	2.4	9
62	Analysis of CO 2 transport including impurities for the optimization of point-to-point pipeline networks for integration into future solar fuel plants. International Journal of Greenhouse Gas Control, 2017, 66, 10-24.	4.6	8
63	HYDROSOL-PLANT: Structured redox reactors for H2 production from solar thermochemical H2O splitting. AIP Conference Proceedings, 2018, , .	0.4	8
64	Oxide Nanoparticles for Hydrogen Production from Water-Splitting and Catalytic Oxidation of Diesel Exhaust Emissions. Nanoscience and Nanotechnology Letters, 2011, 3, 697-704.	0.4	7
65	Zinc-copper oxide coated monolithic reactors for high capacity hydrogen sulphide removal from gaseous streams. International Journal of Hydrogen Energy, 2016, 41, 21251-21260.	7.1	7
66	On kinetic modelling for solar redox thermochemical H ₂ O and CO ₂ splitting over NiFe ₂ O ₄ for H ₂ , CO and syngas production. Physical Chemistry Chemical Physics, 2017, 19, 26776-26786.	2.8	7
67	Co3O4-based honeycombs as compact redox reactors/heat exchangers for thermochemical storage in the next generation CSP plants. AIP Conference Proceedings, 2016, , .	0.4	6
68	Valorization of Plastic Waste: A Lab-Scale Approach with the Aid of Solar Hydrothermal Liquefaction Technology. Waste and Biomass Valorization, 2022, 13, 3835-3844.	3.4	6
69	Application of Digital Material Methods to Silicon Carbide Diesel Particulate Filters. , 2007, , .		5
70	The Micromechanics of Catalytic Soot Oxidation in Diesel Particulate Filters. , 2012, , .		5
71	Catalytic Soot Oxidation: Effect of Ceria-Zirconia Catalyst Particle Size. SAE International Journal of Engines, 2016, 9, 1709-1719.	0.4	4
72	Urban guerrilla activities in Greece. Technological Forecasting and Social Change, 2005, 72, 49-58.	11.6	3

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73	Iron oxide-based particles for high temperature thermochemical energy storage via the elemental sulfur thermochemical cycle. AlP Conference Proceedings, 2019, , .	0.4	3
74	Valorization of organic waste with the aid of solar hydrothermal liquefaction technology. AIP Conference Proceedings, 2020, , .	0.4	2
75	Novel Monolithic Reactors for Solar Thermochemical Water Splitting. , 0, , 621-639.		1
76	Characterization of Qatar's surface carbonates for CO2 capture and thermochemical energy storage. AIP Conference Proceedings, 2017, , .	0.4	1
77	Solar Hydrogen Production. Biofuels and Biorefineries, 2015, , 283-311.	0.5	1
78	A Tutorial on Testing Particulate Filters with a Side-Stream Reactor (SSR) Exhaust Setup. Emission Control Science and Technology, 2018, 4, 312-320.	1.5	0
79	On the Effective Density and Fractal–Like Dimension of Diesel Soot Aggregates as a Function of Mobility Diameter. Emission Control Science and Technology, 2018, 4, 240-246.	1.5	0
80	Solar fuels and industrial solar chemistry. , 2021, , 677-724.		0
81	Recent Advances in Diesel Particulate Emission Control. The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2017, 2017.9, A313.	0.1	0