

Frederic Thevenet

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7157774/publications.pdf>

Version: 2024-02-01

62
papers

2,416
citations

186265
28
h-index

206112
48
g-index

65
all docs

65
docs citations

65
times ranked

2292
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-enhanced uptake of SO ₂ on Icelandic volcanic dusts. <i>Environmental Science Atmospheres</i> , 2022, 2, 375-387.	2.4	2
2	Surface Distribution of Sulfites and Sulfates on Natural Volcanic and Desert Dusts: Impact of Humidity and Chemical Composition. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 642-655.	2.7	2
3	Formaldehyde and glyoxal measurement deploying a selected ion flow tube mass spectrometer (SIFT-MS). <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2001-2019.	3.1	4
4	Indoor use of essential oils: Emission rates, exposure time and impact on air quality. <i>Atmospheric Environment</i> , 2021, 244, 117863.	4.1	20
5	Indoor use of essential oil-based cleaning products: Emission rate and indoor air quality impact assessment based on a realistic application methodology. <i>Atmospheric Environment</i> , 2021, 246, 118060.	4.1	10
6	The indoor fate of terpenes: Quantification of the limonene uptake by materials. <i>Building and Environment</i> , 2021, 188, 107433.	6.9	6
7	Adsorption of VOCs Is a Key Step in Plasma-Catalyst Coupling: The Case of Acetone onto TiO ₂ vs. CeO ₂ . <i>Catalysts</i> , 2021, 11, 350.	3.5	4
8	How Relevant Is It to Use Mineral Proxies to Mimic the Atmospheric Reactivity of Natural Dust Samples? A Reactivity Study Using SO ₂ as Probe Molecule. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 282.	2.0	6
9	Treatment of household product emissions in indoor air: Real scale assessment of the removal processes. <i>Chemical Engineering Journal</i> , 2020, 380, 122525.	12.7	17
10	Uptake Mechanism of Acetic Acid onto Natural Gobi Dust. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1650-1662.	2.7	7
11	Development and validation of a thermally regulated atmospheric simulation chamber (THALAMOS): A versatile tool to simulate atmospheric processes. <i>Journal of Environmental Sciences</i> , 2020, 95, 141-154.	6.1	7
12	Behaviour of individual VOCs in indoor environments: How ventilation affects emission from materials. <i>Atmospheric Environment</i> , 2020, 243, 117713.	4.1	32
13	Reactive uptake of NO ₂ on volcanic particles: A possible source of HONO in the atmosphere. <i>Journal of Environmental Sciences</i> , 2020, 95, 155-164.	6.1	5
14	Does the ubiquitous use of essential oil-based products promote indoor air quality? A critical literature review. <i>Environmental Science and Pollution Research</i> , 2020, 27, 14365-14411.	5.3	19
15	Method development and validation for the determination of sulfites and sulfates on the surface of mineral atmospheric samples using reverse-phase liquid chromatography. <i>Talanta</i> , 2020, 219, 121318.	5.5	13
16	The 2020 plasma catalysis roadmap. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 443001.	2.8	362
17	Uptake and surface chemistry of SO ₂ on natural volcanic dusts. <i>Atmospheric Environment</i> , 2019, 217, 116942.	4.1	23
18	Impact of essential-oil-based cleaning products on indoor air quality: From liquid composition to test emission chamber. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 042095.	0.6	0

#	ARTICLE	IF	CITATIONS
19	Assessment of an experimental method for determining the three key parameters of VOC emissions from solid materials. IOP Conference Series: Materials Science and Engineering, 2019, 609, 032034.	0.6	0
20	Water Interaction with Mineral Dust Aerosol: Particle Size and Hygroscopic Properties of Dust. ACS Earth and Space Chemistry, 2018, 2, 376-386.	2.7	37
21	VOC uptakes on gypsum boards: Sorption performances and impact on indoor air quality. Building and Environment, 2018, 137, 138-146.	6.9	48
22	Photocatalytic oxidation of VOCs at ppb level using a closed-loop reactor: The mixture effect. Applied Catalysis B: Environmental, 2018, 226, 473-486.	20.2	73
23	Plasma-Catalytic Mineralization of Toluene Adsorbed on CeO ₂ . Catalysts, 2018, 8, 303.	3.5	10
24	Heterogeneous Interaction of Various Natural Dust Samples with Isopropyl Alcohol as a Probe VOC. Journal of Physical Chemistry A, 2018, 122, 4911-4919.	2.5	9
25	Photocatalytic treatment of VOC industrial emissions: IPA removal using a sensor-instrumented reactor. Chemical Engineering Journal, 2018, 353, 394-409.	12.7	29
26	Ozone Uptake by Clay Dusts under Environmental Conditions. ACS Earth and Space Chemistry, 2018, 2, 904-914.	2.7	17
27	Geocatalytic Uptake of Ozone onto Natural Mineral Dust. Catalysts, 2018, 8, 263.	3.5	10
28	Emissions and treatment of VOCs emitted from wood-based construction materials: Impact on indoor air quality. Chemical Engineering Journal, 2018, 354, 641-652.	12.7	58
29	Dynamic probing of plasma-catalytic surface processes: Oxidation of toluene on CeO ₂ . Plasma Processes and Polymers, 2017, 14, 1600114.	3.0	48
30	Heterogeneous Interaction of Isoprene with Natural Gobi Dust. ACS Earth and Space Chemistry, 2017, 1, 236-243.	2.7	18
31	Isoprene Heterogeneous Uptake and Reactivity on TiO ₂ : A Kinetic and Product Study. International Journal of Chemical Kinetics, 2017, 49, 773-788.	1.6	11
32	Investigating water adsorption onto natural mineral dust particles: Linking DRIFTS experiments and BET theory. Aeolian Research, 2017, 27, 35-45.	2.7	34
33	VOC ternary mixture effect on ppb level photocatalytic oxidation: Removal kinetic, reaction intermediates and mineralization. Applied Catalysis B: Environmental, 2017, 218, 359-369.	20.2	73
34	How chemical and physical mechanisms enable the influence of the operating conditions in a photocatalytic indoor air treatment device to be modeled. Chemical Engineering Journal, 2017, 307, 766-775.	12.7	12
35	Determination of the Clean Air Delivery Rate (CADR) of Photocatalytic Oxidation (PCO) Purifiers for Indoor Air Pollutants Using a Closed-Loop Reactor. Part II: Experimental Results. Molecules, 2017, 22, 408.	3.8	8
36	Performances and limitations of electronic gas sensors to investigate an indoor air quality event. Building and Environment, 2016, 107, 19-28.	6.9	42

#	ARTICLE	IF	CITATIONS
37	The 40 m ³ Innovative experimental Room for INdoor Air studies (IRINA): Development and validations. Chemical Engineering Journal, 2016, 306, 568-578.	12.7	14
38	Heterogeneous Interaction of Isopropanol with Natural Gobi Dust. Environmental Science & Technology, 2016, 50, 11714-11722.	10.0	22
39	NO ₂ adsorption mechanism on TiO ₂ : An in-situ transmission infrared spectroscopy study. Applied Catalysis B: Environmental, 2016, 198, 411-419.	20.2	68
40	Investigating the Heterogeneous Interaction of VOCs with Natural Atmospheric Particles: Adsorption of Limonene and Toluene on Saharan Mineral Dusts. Journal of Physical Chemistry A, 2016, 120, 1197-1212.	2.5	35
41	Limonene photocatalytic oxidation at ppb levels: Assessment of gas phase reaction intermediates and secondary organic aerosol heterogeneous formation. Applied Catalysis B: Environmental, 2015, 168-169, 183-194.	20.2	21
42	Acetaldehyde adsorption on TiO ₂ : Influence of NO ₂ preliminary adsorption. Chemical Engineering Journal, 2015, 281, 126-133.	12.7	21
43	Isopropanol removal using MnXOY packed bed non-thermal plasma reactor: Comparison between continuous treatment and sequential sorption/regeneration. Chemical Engineering Journal, 2015, 270, 327-335.	12.7	55
44	Acetaldehyde and acetic acid adsorption on TiO ₂ under dry and humid conditions. Chemical Engineering Journal, 2015, 264, 197-210.	12.7	45
45	Plasma-catalyst coupling for volatile organic compound removal and indoor air treatment: a review. Journal Physics D: Applied Physics, 2014, 47, 224011.	2.8	168
46	Oxidation of isopropanol and acetone adsorbed on TiO ₂ under plasma generated ozone flow: Gas phase and adsorbed species monitoring. Applied Catalysis B: Environmental, 2014, 147, 302-313.	20.2	82
47	Acetylene photocatalytic oxidation using continuous flow reactor: Gas phase and adsorbed phase investigation, assessment of the photocatalyst deactivation. Chemical Engineering Journal, 2014, 244, 50-58.	12.7	51
48	Regeneration of isopropyl alcohol saturated MnXOY surface: Comparison of thermal, ozonolysis and non-thermal plasma treatments. Chemical Engineering Journal, 2014, 246, 184-195.	12.7	26
49	Non-Thermal Plasma Assisted Regeneration of Acetone Adsorbed TiO ₂ Surface. Plasma Chemistry and Plasma Processing, 2013, 33, 855-871.	2.4	23
50	Isopropanol saturated TiO ₂ surface regeneration by non-thermal plasma: Influence of air relative humidity. Chemical Engineering Journal, 2013, 214, 17-26.	12.7	68
51	Investigation of NO and NO ₂ adsorption mechanisms on TiO ₂ at room temperature. Applied Catalysis B: Environmental, 2013, 142-143, 196-204.	20.2	71
52	Gas phase photocatalytic oxidation of decane at ppb levels: Removal kinetics, reaction intermediates and carbon mass balance. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 258, 17-29.	3.9	47
53	Toluene photocatalytic oxidation at ppbv levels: Kinetic investigation and carbon balance determination. Applied Catalysis B: Environmental, 2011, 106, 600-608.	20.2	102
54	Synthesis of Hydrogen Peroxide Using Dielectric Barrier Discharge Associated with Fibrous Materials. Plasma Chemistry and Plasma Processing, 2010, 30, 489-502.	2.4	19

#	ARTICLE	IF	CITATIONS
55	OH Radicals and H ₂ O ₂ Molecules in the Gas Phase near to TiO ₂ Surfaces. Journal of Physical Chemistry C, 2010, 114, 3082-3088.	3.1	35
56	Influence of water vapour on plasma/photocatalytic oxidation efficiency of acetylene. Applied Catalysis B: Environmental, 2008, 84, 813-820.	20.2	47
57	C ₂ H ₂ oxidation by plasma/TiO ₂ combination: Influence of the porosity, and photocatalytic mechanisms under plasma exposure. Applied Catalysis B: Environmental, 2008, 80, 296-305.	20.2	85
58	Oxidation of acetylene by photocatalysis coupled with dielectric barrier discharge. Catalysis Today, 2007, 122, 186-194.	4.4	64
59	Dynamic of the plasma current amplitude in a barrier discharge: influence of photocatalytic material. Journal Physics D: Applied Physics, 2006, 39, 2964-2972.	2.8	58
60	Photocatalytic degradation of acetylene over various titanium dioxide-based photocatalysts. Applied Catalysis B: Environmental, 2005, 61, 58-68.	20.2	67
61	Photocatalyst activation in a pulsed low pressure discharge. Applied Physics Letters, 2005, 87, 221501.	3.3	31
62	Determination of the environment of lanthanide ions in a simplified non-active nuclear glass and its weathering gel products – Europium as a structural luminescent probe. Journal of Non-Crystalline Solids, 2005, 351, 673-677.	3.1	13