

Joanna Aojewska

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8108827/publications.pdf>

Version: 2024-02-01

89
papers

2,279
citations

201674

27
h-index

254184

43
g-index

90
all docs

90
docs citations

90
times ranked

2435
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellulose oxidative and hydrolytic degradation: In situ FTIR approach. <i>Polymer Degradation and Stability</i> , 2005, 88, 512-520.	5.8	326
2	Thin cobalt oxide films for catalysis deposited by plasma-enhanced metal-organic chemical vapor deposition. <i>Thin Solid Films</i> , 2007, 515, 6590-6595.	1.8	101
3	Degradation markers of fibroin in silk through infrared spectroscopy. <i>Polymer Degradation and Stability</i> , 2014, 105, 185-196.	5.8	87
4	FTIR and UV/vis as methods for evaluation of oxidative degradation of model paper: DFT approach for carbonyl vibrations. <i>Carbohydrate Polymers</i> , 2010, 82, 370-375.	10.2	73
5	In situ spectroscopic studies of methane catalytic combustion over Co, Ce, and Pd mixed oxides deposited on a steel surface. <i>Journal of Catalysis</i> , 2017, 350, 1-12.	6.2	70
6	Effect of ball-milling on crystallinity index, degree of polymerization and thermal stability of cellulose. <i>Bioresource Technology</i> , 2018, 270, 270-277.	9.6	69
7	Evaluating paper degradation progress. Cross-linking between chromatographic, spectroscopic and chemical results. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 809-821.	2.3	65
8	Engineering and chemical aspects of the preparation of microstructured cobalt catalyst for VOC combustion. <i>Catalysis Today</i> , 2005, 101, 81-91.	4.4	55
9	Optimization of structured catalyst carriers for VOC combustion. <i>Catalysis Today</i> , 2005, 105, 378-384.	4.4	53
10	FTIR in situ transmission studies on the kinetics of paper degradation via hydrolytic and oxidative reaction paths. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 83, 597-603.	2.3	52
11	Pd/Pt promoted Co ₃ O ₄ catalysts for VOCs combustion. <i>Catalysis Today</i> , 2005, 105, 655-661.	4.4	51
12	Coupled engineering and chemical approach to the design of a catalytic structured reactor for combustion of VOCs: Cobalt oxide catalyst on knitted wire gauzes. <i>Chemical Engineering Journal</i> , 2012, 200-202, 329-337.	12.7	51
13	Structured cobalt oxide catalyst for VOC combustion. Part I: Catalytic and engineering correlations. <i>Applied Catalysis A: General</i> , 2009, 366, 206-211.	4.3	47
14	Carbonyl groups development on degraded cellulose. Correlation between spectroscopic and chemical results. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 89, 883-887.	2.3	45
15	Size exclusion chromatography and viscometry in paper degradation studies. New Mark-Houwink coefficients for cellulose in cupri-ethylenediamine. <i>Journal of Chromatography A</i> , 2010, 1217, 6462-6468.	3.7	41
16	Experimental and modelling study on flow resistance of wire gauzes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 816-822.	3.6	40
17	Optical response of strongly absorbing inhomogeneous materials: Application to paper degradation. <i>Physical Review B</i> , 2014, 89, .	3.2	40
18	Copper exchanged ultrastable zeolite Y - A catalyst for NH ₃ -SCR of NO _x from stationary biogas engines. <i>Catalysis Today</i> , 2012, 191, 6-11.	4.4	37

#	ARTICLE	IF	CITATIONS
19	Spectroscopic characterization of Co ₃ O ₄ catalyst doped with CeO ₂ and PdO for methane catalytic combustion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 696-701.	3.9	36
20	Preparation of silver nanoparticles using different fractions of TEMPO-oxidized nanocellulose. <i>European Polymer Journal</i> , 2019, 116, 242-255.	5.4	35
21	Influence of lignin content in cellulose pulp on paper durability. <i>Scientific Reports</i> , 2020, 10, 19998.	3.3	35
22	Mass transfer for woven and knitted wire gauze substrates: Experiments and modelling. <i>Catalysis Today</i> , 2009, 147, S120-S124.	4.4	32
23	Furfural as a marker of cellulose degradation. A quantitative approach. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 873-884.	2.3	32
24	Terahertz Absorption by Cellulose: Application to Ancient Paper Artifacts. <i>Physical Review Applied</i> , 2017, 7, .	3.8	32
25	Heat transfer and flow resistance for stacked wire gauzes: Experiments and modelling. <i>International Journal of Heat and Fluid Flow</i> , 2012, 33, 101-108.	2.4	31
26	Cu SSZ-13 zeolite catalyst on metallic foam support for SCR of NO with ammonia: Catalyst layering and characterisation of active sites. <i>Catalysis Today</i> , 2016, 268, 142-149.	4.4	29
27	Short-channel structured reactor for catalytic combustion: Design and evaluation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 637-648.	3.6	28
28	Evaluating degradation of silk's fibroin by attenuated total reflectance infrared spectroscopy: Case study of ancient banners from Polish collections. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 576-582.	3.9	25
29	Metal Foams as Novel Catalyst Support in Environmental Processes. <i>Catalysts</i> , 2019, 9, 587.	3.5	25
30	Prospect of compact afterburners based on metallic microstructures. Design and modelling. <i>Topics in Catalysis</i> , 2007, 42-43, 475-480.	2.8	20
31	Mass transport and kinetics in structured steel foam reactor with Cu-ZSM-5 catalyst for SCR of NO _x with ammonia. <i>Catalysis Today</i> , 2013, 216, 135-141.	4.4	20
32	Hyperspectral imaging coupled with chemometric analysis for non-invasive differentiation of black pens. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	20
33	Active state of model cobalt foil catalyst studied by SEM, TPR/TPO, XPS and TG. <i>Catalysis Today</i> , 2001, 69, 409-418.	4.4	19
34	Advantages of a wire gauze structured reactor with a zeolite (Cu-USY) catalyst for NH ₃ -SCR of NO. <i>Chemical Engineering Journal</i> , 2013, 214, 319-326.	12.7	19
35	Surface structure of cobalt, palladium, and mixed oxide-based catalysts and their activity in methane combustion studied by means of micro-Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1871-1880.	2.5	19
36	How to estimate cellulose condition in insulation transformers papers? Combined chromatographic and spectroscopic study. <i>Polymer Degradation and Stability</i> , 2019, 168, 108951.	5.8	18

#	ARTICLE	IF	CITATIONS
37	Following cellulose depolymerization in paper: comparison of size exclusion chromatography techniques. <i>Cellulose</i> , 2011, 18, 1349-1363.	4.9	17
38	Catalytic Combustion of Low-Concentration Methane on Structured Catalyst Supports. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10281-10291.	3.7	17
39	AN EXPERIMENTAL STUDY OF THE PRESSURE DROP IN FLUID FLOWS THROUGH WIRE GAUZES. <i>Chemical Engineering Communications</i> , 2009, 196, 932-949.	2.6	16
40	Cobalt catalyst deposited on metallic microstructures for VOC combustion: Preparation by non-equilibrium plasma. <i>Catalysis Communications</i> , 2008, 10, 142-145.	3.3	15
41	Artificial versus natural ageing of paper. Water role in degradation mechanisms. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 625-633.	2.3	15
42	Short-channel structured reactor: Experiments versus previous theoretical design. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011, 50, 869-876.	3.6	15
43	New method of determination of intrinsic kinetic and mass transport parameters from typical catalyst activity tests: Problem of mass transfer resistance and diffusional limitation of reaction rate. <i>Chemical Engineering Science</i> , 2017, 162, 322-331.	3.8	15
44	Recognizing ancient papyri by a combination of spectroscopic, diffractonal and chromatographic analytical tools. <i>Scientific Reports</i> , 2017, 7, 46236.	3.3	15
45	DeNOx Abatement over Sonically Prepared Iron-Substituted Y, USY and MFI Zeolite Catalysts in Lean Exhaust Gas Conditions. <i>Nanomaterials</i> , 2018, 8, 21.	4.1	15
46	Flow resistance of wire gauzes. <i>AIChE Journal</i> , 2009, 55, 264-267.	3.6	14
47	Towards determination of absolute molar mass of cellulose polymer by size exclusion chromatography with multiple angle laser light scattering detection. <i>Journal of Chromatography A</i> , 2015, 1409, 53-59.	3.7	14
48	Fibroin degradation – Critical evaluation of conventional analytical methods. <i>Polymer Degradation and Stability</i> , 2015, 120, 357-367.	5.8	14
49	In situ and operando spectroscopic studies of sonically aided catalysts for biogas exhaust abatement. <i>Journal of Molecular Structure</i> , 2016, 1126, 132-140.	3.6	14
50	Towards Methane Combustion Mechanism on Metal Oxides Supported Catalysts: Ceria Supported Palladium Catalysts. <i>Topics in Catalysis</i> , 2019, 62, 403-412.	2.8	14
51	Selective oxidation of methylal as a new catalytic route to concentrated formaldehyde: Reaction kinetic profile in gradientless flow reactor. <i>Catalysis Communications</i> , 2008, 9, 1833-1837.	3.3	13
52	Short-Channel Structured Reactor as a Catalytic Afterburner. <i>Topics in Catalysis</i> , 2013, 56, 273-278.	2.8	13
53	Global and Local Thresholding Methods Applied to X-ray Microtomographic Analysis of Metallic Foams. <i>Journal of Nondestructive Evaluation</i> , 2016, 35, 1.	2.4	13
54	Note: Light ageing with simultaneous colorimetry via fibre optics reflection spectrometry. <i>Review of Scientific Instruments</i> , 2011, 82, 076102.	1.3	12

#	ARTICLE	IF	CITATIONS
55	A Comparison Between Monolithic and Wire Gauze Structured Catalytic Reactors for CH ₄ and CO Removal from Biogas-Fuelled Engine Exhaust. <i>Topics in Catalysis</i> , 2013, 56, 390-396.	2.8	12
56	Topography and morphology of multicomponent catalytic materials based on Co, Ce and Pd oxides deposited on metallic structured carriers studied by AFM/Raman interlaced microscopes. <i>Catalysis Today</i> , 2013, 216, 11-17.	4.4	12
57	Antimicrobial Properties of Silver Cations Substituted to Faujasite Mineral. <i>Nanomaterials</i> , 2017, 7, 240.	4.1	12
58	Generalised two-dimensional correlation analysis of the Co, Ce, and Pd mixed oxide catalytic systems for methane combustion using in situ infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 202-210.	3.9	12
59	Design of Co, Cu and Fe-β-zeolite Catalysts for Selective Conversion of Lactic Acid into Acrylic Acid. <i>Catalysis Letters</i> , 2019, 149, 3349-3360.	2.6	12
60	Preparation, characterization and deposition of Langmuir-Blodgett Co, Al organic films for the catalytic applications. <i>Thin Solid Films</i> , 2006, 495, 299-307.	1.8	11
61	Size exclusion chromatography for analyses of fibroin in silk: optimization of sampling and separation conditions. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 301-308.	2.3	11
62	Nanoscale analysis of degradation processes of cellulose fibers. <i>Micron</i> , 2016, 91, 75-81.	2.2	11
63	Far Field Combined AFM and Micro-Raman Imaging for Characterisation of Surface of Structured Catalysts: Example of Pd Doped CoO _x Catalysts on Precalcined Kanthal Steel. <i>Topics in Catalysis</i> , 2013, 56, 1088-1095.	2.8	10
64	Microstructured Reactor as a Pre-Turbo Catalytic Converter. <i>Topics in Catalysis</i> , 2013, 56, 384-389.	2.8	10
65	Methane combustion modelling of wire gauze reactor coated with Co ₃ O ₄ -CeO ₂ , Co ₃ O ₄ -PdO catalysts. <i>Catalysis Today</i> , 2013, 216, 276-282.	4.4	9
66	Quantitative diagnostics of ancient paper using THz time-domain spectroscopy. <i>Microchemical Journal</i> , 2018, 142, 54-61.	4.5	9
67	Model of activation of the cobalt foil as a catalyst for CO ₂ methanation. <i>Journal of Molecular Catalysis A</i> , 1997, 122, 1-11.	4.8	8
68	Prospective Catalytic Structured Converters for NH ₃ -SCR of NO _x from Biogas Stationary Engines: In Situ Template-Free Synthesis of ZSM-5 Cu Exchanged Catalysts on Steel Carriers. <i>Topics in Catalysis</i> , 2013, 56, 56-61.	2.8	8
69	Impact of residual fuel ash layers on the catalytic activation of K-feldspar regarding the water-gas shift reaction. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 3-14.	4.6	8
70	Promoting methane partial oxidation: homogenous additives impact on formaldehyde yield on vanadia catalyst. <i>Catalysis Today</i> , 2005, 101, 73-80.	4.4	7
71	Mark-Houwink-Sakurada coefficients determination for molar mass of silk fibroin from viscometric results. SEC-MALLS approach. <i>RSC Advances</i> , 2016, 6, 38071-38078.	3.6	7
72	Evaluating the impact of different exogenous factors on silk textiles deterioration with use of size exclusion chromatography. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	7

#	ARTICLE	IF	CITATIONS
73	Gas-phase flow resistance of metal foams: Experiments and modeling. <i>AIChE Journal</i> , 2017, 63, 1799-1803.	3.6	7
74	2D-COS of in situ $\hat{1}/4$ -Raman and in situ IR spectra for structure evolution characterisation of NEP-deposited cobalt oxide catalyst during n-nonane combustion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 186, 44-51.	3.9	7
75	Short-channel structures of triangular cross-section. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 3291-3295.	4.8	6
76	Structured Foam Reactor with CuSSZ-13 Catalyst for SCR of NO _x with Ammonia. <i>Topics in Catalysis</i> , 2016, 59, 887-894.	2.8	6
77	Structure Effects on Activity of Plasma Deposited Cobalt Oxide Catalysts for VOC Combustion. <i>Topics in Catalysis</i> , 2017, 60, 318-325.	2.8	6
78	In Search of Governing Gas Flow Mechanism through Metal Solid Foams. <i>Catalysts</i> , 2017, 7, 124.	3.5	6
79	TPR and TPD studies of vanadia/silica catalysts for selective oxidation of methane to formaldehyde. <i>Reaction Kinetics and Catalysis Letters</i> , 2004, 83, 121-128.	0.6	4
80	Spectroscopic studies of MFI and USY zeolite layers over stainless steel 316L wire gauze meshes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 230, 118060.	3.9	4
81	Promoted cobalt oxide catalyst on the metallic structured reactor filling for VOC combustion as an alternative to noble metal catalysts. <i>Polish Journal of Chemical Technology</i> , 2007, 9, 15-19.	0.5	3
82	Reflective and photoacoustic infrared spectroscopic techniques in assessment of binding media in paintings. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 105, 753-761.	2.3	3
83	Novel intense metallic monolith for automotive applications: Experimental versus numerical studies. <i>Comptes Rendus Chimie</i> , 2015, 18, 1030-1035.	0.5	3
84	Paper material containing Ag cations immobilised in faujasite: synthesis, characterisation and antibacterial effects. <i>Cellulose</i> , 2018, 25, 1353-1364.	4.9	3
85	Deactivation of preoxidized cobalt foil studied by CO ₂ pulse hydrogenation. <i>Reaction Kinetics and Catalysis Letters</i> , 1994, 52, 445-451.	0.6	2
86	Tuning the metathesis performance of a molybdenum oxide-based catalyst by silica support acidity modulation and high temperature pretreatment. <i>Catalysis Science and Technology</i> , 2022, 12, 2134-2145.	4.1	2
87	Structured catalyst carrier for selective oxidation of hydrocarbons: modelling and testing. <i>Catalysis Today</i> , 2004, 91-92, 59-65.	4.4	1
88	In Situ and Operando Techniques in Catalyst Characterisation and Design. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2019, , 333-359.	0.6	1
89	Advances in Catalyst and Process Design for Air Pollutants Abatement. , 2013, , 461-486.		0