Frank-Dieter Kopinke

List of Publications by Year
in descending order

192 papers	8,003 citations	47006 47 h-index	56724 83 g-index
201 all docs	201 docs citations	201 times ranked	7735 citing authors

#	Article	IF	Citations
1	Thermal decomposition of biodegradable polyestersâ€"II. Poly(lactic acid). Polymer Degradation and Stability, 1996, 53, 329-342.	5.8	506
2	Combination of non-thermal plasma and heterogeneous catalysis for oxidation of volatile organic compounds Part 1. Accessibility of the intra-particle volume. Applied Catalysis B: Environmental, 2002, 38, 163-181.	20.2	258
3	Interaction of adsorption and catalytic reactions in water decontamination processes. Applied Catalysis B: Environmental, 2005, 58, 9-18.	20.2	247
4	Humic acid modified Fenton reagent for enhancement of the working pH range. Applied Catalysis B: Environmental, 2007, 72, 26-36.	20.2	235
5	Nano-sized magnetic iron oxides as catalysts for heterogeneous Fenton-like reactionsâ€"Influence of Fe(II)/Fe(III) ratio on catalytic performance. Journal of Hazardous Materials, 2012, 241-242, 433-440.	12.4	228
6	Solid Phase Microextraction for Determining the Distribution of Chemicals in Aqueous Matrices. Analytical Chemistry, 1997, 69, 597-600.	6.5	220
7	Improved oxidation of air pollutants in a non-thermal plasma. Catalysis Today, 2002, 73, 315-323.	4.4	191
8	Thermal decomposition of biodegradable polyestersâ€"I: Poly(Î²-hydroxybutyric acid). Polymer Degradation and Stability, 1996, 52, 25-38.	5.8	151
9	LaFeO3 and BiFeO3 perovskites as nanocatalysts for contaminant degradation in heterogeneous Fenton-like reactions. Chemical Engineering Journal, 2014, 239, 322-331.	12.7	151
10	Mechanistic aspects of the thermal degradation of poly(lactic acid) and poly(Î²-hydroxybutyric acid). Journal of Analytical and Applied Pyrolysis, 1997, 40-41, 43-53.	5.5	150
11	Fe-zeolites as heterogeneous catalysts in solar Fenton-like reactions at neutral pH. Applied Catalysis B: Environmental, 2012, 125, 51-58.	20.2	141
12	Influence of Ferroelectric Materials and Catalysts on the Performance of Non-Thermal Plasma (NTP) for the Removal of Air Pollutants. Plasma Chemistry and Plasma Processing, 2005, 25, 595-611.	2.4	136
13	Competing adsorption of toluene and water on various zeolites. Chemical Engineering Journal, 2018, 351, 356-363.	12.7	136
14	Hydrothermal carbonization of poly(vinyl chloride). Chemosphere, 2015, 119, 682-689.	8.2	131
15	Indications of the reactive species in a heterogeneous Fenton-like reaction using Fe-containing zeolites. Applied Catalysis A: General, 2011, 398, 44-53.	4.3	128
16	Carbo-Iron â€" An Fe/AC composite â€" As alternative to nano-iron for groundwater treatment. Water Research, 2012, 46, 3817-3826.	11.3	123
17	Carbon Isotope Fractionation of Organic Contaminants Due to Retardation on Humic Substances:â€‰ Implications for Natural Attenuation Studies in Aquifers. Environmental Science & Technology, 2005, 39, 6052-6062.	10.0	118
18	Hydrodehalogenation of halogenated hydrocarbons in water with Pd catalysts: Reaction rates and surface competition. Applied Catalysis B: Environmental, 2006, 63, 161-167.	20.2	112

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19	Sorption of Organic Pollutants on Anthropogenic Humic Matter. Environmental Science & Technology, 1995, 29, 941-950.	10.0	110
20	Solid Phase Microextraction To Study the Sorption of Organotin Compounds onto Particulate and Dissolved Humic Organic Matterâ€. Environmental Science & Technology, 1997, 31, 3629-3636.	10.0	110
21	Coke Formation in the Thermal Cracking of Hydrocarbons. 4. Modeling of Coke Formation in Naphtha Cracking. Industrial & Engineering Chemistry Research, 1994, 33, 2584-2590.	3.7	108
22	Characterization of biocoals and dissolved organic matter phases obtained upon hydrothermal carbonization of brewerâ€™s spent grain. Bioresource Technology, 2014, 164, 162-169.	9.6	101
23	Adsorption of Humic Substances onto Kaolin Clay Related to Their Structural Features. Soil Science Society of America Journal, 2002, 66, 1805-1812.	2.2	100
24	Relative rates of coke formation from hydrocarbons in steam cracking of naphtha. 2. Paraffins, naphthenes, mono-, di-, and cycloolefins, and acetylenes. Industrial & Engineering Chemistry Research, 1993, 32, 56-61.	3.7	99
25	Sorption of Very Hydrophobic Organic Compounds (VHOCs) on Dissolved Humic Organic Matter (DOM). 2. Measurement of Sorption and Application of a Floryâ^'Huggins Concept To Interpret the Data. Environmental Science & Technology, 2001, 35, 1142-1148.	10.0	98
26	Hydrophobic Fe-Zeolites for Removal of MTBE from Water by Combination of Adsorption and Oxidation. Environmental Science & Technology, 2013, 47, 2353-2360.	10.0	96
27	Sorption of Pyrene to Dissolved Humic Substances and Related Model Polymers. 1. Structureâ^'Property Correlation. Environmental Science & Technology, 2001, 35, 2536-2542.	10.0	94
28	Alternative sources of hydrogen for hydrodechlorination of chlorinated organic compounds in water on Pd catalysts. Applied Catalysis A: General, 2004, 271, 119-128.	4.3	91
29	Assimilation of CO2 by soil microorganisms and transformation into soil organic matter. Organic Geochemistry, 2004, 35, 1015-1024.	1.8	90
30	Non-phototrophic CO 2 fixation by soil microorganisms. Plant and Soil, 2005, 269, 193-203.	3.7	90
31	Fe-zeolites as catalysts for chemical oxidation of MTBE in water with H2O2. Applied Catalysis B: Environmental, 2009, 89, 356-364.	20.2	85
32	Solid-phase microextraction for determining the binding state of organic pollutants in contaminated water rich in humic organic matter. Journal of Chromatography A, 1998, 816, 159-167.	3.7	82
33	Accelerated Catalytic Fenton Reaction with Traces of Iron: An Feâ€"Pd-Multicatalysis Approach. Environmental Science & Technology, 2016, 50, 5882-5891.	10.0	81
34	On the mechanism of coke formation in steam crackingâ€"conclusions from results obtained by tracer experiments. Carbon, 1988, 26, 117-124.	10.3	80
35	Carbo-IronÂ®â€"Synthesis and stabilization of Fe(0)-doped colloidal activated carbon for in situ groundwater treatment. Chemical Engineering Journal, 2012, 191, 588-595.	12.7	80
36	Sorption of Very Hydrophobic Organic Compounds onto Poly(dimethylsiloxane) and Dissolved Humic Organic Matter. 1. Adsorption or Partitioning of VHOC on PDMS-Coated Solid-Phase Microextraction FibersA Never-Ending Story?. Environmental Science & Technology, 2000, 34, 3824-3830.	10.0	77

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37	Pd/Fe3O4 nano-catalysts for selective dehalogenation in wastewater treatment processesâ€”Influence of water constituents. Applied Catalysis B: Environmental, 2009, 91, 389-396.	20.2	77
38	Relative rates of coke formation from hydrocarbons in steam cracking of naphtha. 3. Aromatic hydrocarbons. Industrial & Engineering Chemistry Research, 1993, 32, 2620-2625.	3.7	75
39	Influence of Process Water Reuse on the Hydrothermal Carbonization of Paper. ACS Sustainable Chemistry and Engineering, 2014, 2, 2165-2171.	6.7	75
40	Understanding the effect of carbon surface chemistry on adsorption of perfluorinated alkyl substances. Chemical Engineering Journal, 2020, 381, 122689.	12.7	74
41	Hydrothermal carbonization of olive mill wastewater. Bioresource Technology, 2013, 133, 581-588.	9.6	73
42	Highly Active Pd-on-Magnetite Nanocatalysts for Aqueous Phase Hydrodechlorination Reactions. Environmental Science & Technology, 2009, 43, 3254-3259.	10.0	72
43	Hydrodechlorination of chloroorganic compounds in ground water by palladium catalysts. Catalysis Today, 2003, 82, 105-118.	4.4	70
44	Formation of chlorinated biphenyls, diphenyl ethers and benzofurans as a result of Fenton-driven oxidation of 2-chlorophenol. Chemosphere, 2009, 75, 772-780.	8.2	55
45	Pd-catalyzed hydrodechlorination of chlorinated aromatics in contaminated watersâ€”Effects of surfactants, organic matter and catalyst protection by silicone coating. Applied Catalysis B: Environmental, 2010, 96, 323-328.	20.2	53
46	Combination of non-thermal plasma and heterogeneous catalysis for oxidation of volatile organic compounds. Applied Catalysis B: Environmental, 2005, 58, 227-234.	20.2	51
47	Colloidal activated carbon for in-situ groundwater remediation â€” Transport characteristics and adsorption of organic compounds in water-saturated sediment columns. Journal of Contaminant Hydrology, 2015, 179, 76-88.	3.3	49
48	Catalytic hydrodechlorination of groundwater contaminants in water and in the gas phase using Pd/Î³-Al2O3. Applied Catalysis B: Environmental, 2003, 44, 15-24.	20.2	48
49	Natural and synthetic zeolites in adsorption/oxidation processes to remove surfactant molecules from water. Separation and Purification Technology, 2014, 127, 1-9.	7.9	48
50	Engineering Aspects of Radio-Wave Heating for Soil Remediation and Compatibility with Biodegradation. Environmental Science & Technology, 2008, 42, 1232-1237.	10.0	43
51	Potential of the hydrothermal carbonization process for the degradation of organic pollutants. Chemosphere, 2013, 92, 674-680.	8.2	43
52	Carbo-Iron as improvement of the nanoiron technology: From laboratory design to the field test. Science of the Total Environment, 2016, 563-564, 641-648.	8.0	43
53	Influence of Sorption to Dissolved Humic Substances on Transformation Reactions of Hydrophobic Organic Compounds in Water. I. Chlorination of PAHs. Environmental Science & Technology, 2007, 41, 7003-7009.	10.0	40
54	Sulfidation of ZVI/AC composite leads to highly corrosion-resistant nanoremediation particles with extended life-time. Science of the Total Environment, 2019, 665, 235-245.	8.0	40

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55	Enhanced degradation of perfluorooctanoic acid by heat-activated persulfate in the presence of zeolites. Chemical Engineering Journal, 2022, 429, 132500.	12.7	40
56	Permanganate Oxidation of Sulfur Compounds to Prevent Poisoning of Pd Catalysts in Water Treatment Processes. Environmental Science & Technology, 2008, 42, 5734-5739.	10.0	39
57	Sorption of Pyrene to Dissolved Humic Substances and Related Model Polymers. 2. Solid-Phase Microextraction (SPME) and Fluorescence Quenching Technique (FQT) as Analytical Methods. Environmental Science & Technology, 2002, 36, 4403-4409.	10.0	38
58	Photodegradation of Perfluorooctanesulfonic Acid on Fe-Zeolites in Water. Environmental Science & Technology, 2021, 55, 614-622.	10.0	38
59	Sorption and Chemical Reactions of PAHs with Dissolved Humic Substances and Related Model Polymers. Clean - Soil, Air, Water, 2001, 28, 385-399.	0.6	37
60	Critical Evaluation of the 2D-CSIA Scheme for Distinguishing Fuel Oxygenate Degradation Reaction Mechanisms. Environmental Science & Technology, 2012, 46, 4757-4766.	10.0	36
61	Characterization of biochars and dissolved organic matter phases obtained upon hydrothermal carbonization of Elodea nuttallii. Bioresource Technology, 2015, 189, 145-153.	9.6	36
62	Carbon and hydrogen isotope fractionation of benzene and toluene during hydrophobic sorption in multistep batch experiments. Chemosphere, 2014, 107, 454-461.	8.2	34
63	Combination of hydrothermal carbonization and wet oxidation of various biomasses. Chemical Engineering Journal, 2015, 279, 715-724.	12.7	34
64	Degradation of perfluorooctanoic acid adsorbed on Fe-zeolites with molecular oxygen as oxidant under UV-A irradiation. Applied Catalysis B: Environmental, 2020, 278, 119283.	20.2	34
65	Hydrothermal treatment for regeneration of activated carbon loaded with organic micropollutants. Science of the Total Environment, 2018, 644, 854-861.	8.0	33
66	Results of Field Tests on Radio-Wave Heating for Soil Remediation. Environmental Science & Technology, 2007, 41, 8447-8452.	10.0	31
67	Sulphide-induced deactivation of Pd/Al2O3 as hydrodechlorination catalyst and its oxidative regeneration with permanganate. Applied Catalysis B: Environmental, 2009, 90, 613-617.	20.2	31
68	Protection of palladium catalysts for hydrodechlorination of chlorinated organic compounds in wastewaters. Applied Catalysis B: Environmental, 2012, 119-120, 241-247.	20.2	31
69	Reductive dechlorination in water: Interplay of sorption and reactivity. Applied Catalysis B: Environmental, 2016, 181, 747-753.	20.2	31
70	Competitive Sorptionâ˘'Desorption Behavior of Triazine Herbicides with Plant Cuticular Fractions. Journal of Agricultural and Food Chemistry, 2006, 54, 7761-7768.	5.2	30
71	Guest Diffusion in Interpenetrating Networks of Micro- and Mesopores. Journal of the American Chemical Society, 2011, 133, 2437-2443.	13.7	30
72	Comment on â€œMistakes and inconsistencies regarding adsorption of contaminants from aqueous solution: A critical review, published by Tran etÂ al. [Water Research 120, 2017, 88â€"116]â€• Water Research, 2018, 129, 520-521.	11.3	30

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73	New results about the mechanism of TLE fouling in steam crackers. Journal of Analytical and Applied Pyrolysis, 1993, 27, 45-55.	5.5	29
74	Kinetics of Desorption of Organic Compounds from Dissolved Organic Matter. Environmental Science & Technology, 2011, 45, 10013-10019.	10.0	29
75	Catalytic effects of activated carbon on hydrolysis reactions of chlorinated organic compounds. Applied Catalysis B: Environmental, 2005, 59, 171-179.	20.2	28
76	Incorporation of carbon originating from CO2into different compounds of soil microbial biomass and soil organic matterâ€. Isotopes in Environmental and Health Studies, 2005, 41, 135-140.	1.0	28
77	Catalytic effects of activated carbon on hydrolysis reactions of chlorinated organic compounds. Catalysis Today, 2005, 102-103, 148-153.	4.4	26
78	Transfer-Line Heat Exchanger Fouling during Pyrolysis of Hydrocarbons. 1. Deposits from Dry Cracked Gases. Industrial & Engineering Chemistry Research, 1995, 34, 1132-1139.	3.7	25
79	What is specific in adsorption of perfluoroalkyl acids on carbon materials?. Chemosphere, 2021, 273, 128520.	8.2	25
80	Hyphenated techniques for characterizing coal wastewaters and associated sediments. Journal of Chromatography A, 1996, 750, 287-301.	3.7	24
81	In Situ Radioâ€Frequency Heating for Soil Remediation at a Former Service Station: Case Study and General Aspects. Chemical Engineering and Technology, 2012, 35, 1534-1544.	1.5	24
82	Wet Oxidation of Process Waters from the Hydrothermal Carbonization of Sewage Sludge. Chemie-Ingenieur-Technik, 2018, 90, 872-880.	0.8	24
83	Some mistakes and misinterpretations in the analysis of thermodynamic adsorption data. Journal of Molecular Liquids, 2022, 352, 118762.	4.9	24
84	Organic breakdown products resulting from hydrothermal carbonization of brewerâ€™s spent grain. Chemosphere, 2015, 131, 71-77.	8.2	23
85	Efforts for long-term protection of palladium hydrodechlorination catalysts. Applied Catalysis B: Environmental, 2016, 186, 204-211.	20.2	23
86	Wet oxidation of process water from hydrothermal carbonization of biomass with nitrate as oxidant. Chemical Engineering Journal, 2018, 339, 1-6.	12.7	23
87	Evidence of heterogeneous degradation of PFOA by activated persulfate â€“ FeS as adsorber and activator. Chemical Engineering Journal, 2021, 423, 130102.	12.7	23
88	Evaluation of matrix-assisted laser desorption/ionization (MALDI) time- of-flight (TOF) mass spectrometry as a method for the determination of the molecular mass distributions of humic acids. European Journal of Mass Spectrometry, 1995, 1, 403.	0.7	22
89	Reagent or catalyst? â€“ FeS as activator for persulfate in water. Chemical Engineering Journal, 2020, 387, 123804.	12.7	21
90	Untersuchungen zur Sulfochlorierung von Paraffinen. I Kinetische Untersuchungen Ã¼ber die Erstsulfochlorierung der n-Paraffine C6-C16. Journal FÃ¼r Praktische Chemie, 1976, 318, 1019-1030.	0.2	20

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91	Chlorophenol degradation using a one-pot reductionâ€“oxidation process. Applied Catalysis B: Environmental, 2011, 104, 161-168.	20.2	20
92	Sulfurâ€‹³⁶S stable isotope labeling of amino acids for quantification (SULAQ). Proteomics, 2012, 12, 37-42.	2.2	20
93	Wet oxidation of charâ€“water-slurries from hydrothermal carbonization of paper and brewer's spent grains. Fuel Processing Technology, 2014, 128, 425-431.	7.2	20
94	Non-thermal plasma treatment for the elimination of odorous compounds from exhaust air from cooking processes. Chemical Engineering Journal, 2018, 334, 1988-1995.	12.7	20
95	Controlling adsorption of perfluoroalkyl acids on activated carbon felt by means of electrical potentials. Chemical Engineering Journal, 2021, 416, 129070.	12.7	20
96	Influence of sorption to dissolved humic substances on transformation reactions of hydrophobic organic compounds in water. Part II: Hydrolysis reactions. Chemosphere, 2008, 71, 1452-1460.	8.2	19
97	Isotope fractionation of benzene during partitioning â€“ Revisited. Chemosphere, 2017, 168, 508-513.	8.2	19
98	Zur Gasphasenpyrolyse von 6â€alkylierten Pentafulvenen. Chemische Berichte, 1988, 121, 1855-1860.	0.2	18
99	Rearrangement reactions in the thermal formation of aromatics from cycloolefins. 14C-labelling studies. Journal of Analytical and Applied Pyrolysis, 1988, 13, 259-275.	5.5	18
100	Relative reactivities of carbon-hydrogen bonds in hydrogen atom abstraction by phenyl radicals. Journal of Organic Chemistry, 1989, 54, 3571-3576.	3.2	18
101	Influence of moisture content and temperature on the dielectric permittivity of zeolite NaY. Physical Chemistry Chemical Physics, 2011, 13, 4119.	2.8	18
102	Thermoanalytical methods for characterizing hydrocarbonâ€”sludgeâ€”soil mixtures. Thermochimica Acta, 1995, 263, 101-112.	2.7	17
103	Validation of a modified Floryâ€Huggins concept for description of hydrophobic organic compound sorption on dissolved humic substances. Environmental Toxicology and Chemistry, 2002, 21, 1766-1774.	4.3	17
104	Reductive destruction of halogenated hydrocarbons in liquids and solids with solvated electrons. Chemosphere, 1996, 33, 1495-1513.	8.2	16
105	Debromination of duroplastic flame-retarded polymers. Chemosphere, 1996, 33, 2423-2430.	8.2	16
106	Pyrolysis pattern of anthropogenic and natural humic organic matter. Journal of Separation Science, 1998, 10, 401-411.	1.0	16
107	Fe-Zeolites as Catalysts for Wet Peroxide Oxidation of Organic Groundwater Contaminants: Mechanistic Studies and Applicability Tests. Separation Science and Technology, 2010, 45, 1579-1586.	2.5	16
108	Influence ofin SituSteam Formation by Radio Frequency Heating on Thermodesorption of Hydrocarbons from Contaminated Soil. Environmental Science & Technology, 2010, 44, 9502-9508.	10.0	16

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109	Suspension stability and mobility of Trap-Ox Fe-zeolites for in-situ nanoremediation. Journal of Colloid and Interface Science, 2017, 501, 311-320.	9.4	16
110	What Controls Selectivity of Hydroxyl Radicals in Aqueous Solution? Indications for a Cage Effect. Journal of Physical Chemistry A, 2017, 121, 7947-7955.	2.5	15
111	Formation of aromatics during the pyrolysis of oligocyclic naphthenes. Journal of Analytical and Applied Pyrolysis, 1985, 7, 195-205.	5.5	14
112	Thermal conversion of hydrocarbons on solid matrices. Thermochimica Acta, 1995, 263, 113-121.	2.7	14
113	Interaction of zero-valent iron and carbonaceous materials for reduction of DDT. Chemosphere, 2020, 253, 126712.	8.2	14
114	Water solubility enhancement of pyrene in the presence of humic substances, by S. Tanaka et al.: comments. Analytica Chimica Acta, 1997, 355, 101-103.	5.4	13
115	Utilization of Organosolv Waste Waters as Liquid Phase for Hydrothermal Carbonization of Chaff. ACS Sustainable Chemistry and Engineering, 2016, 4, 5737-5742.	6.7	13
116	Acceleration of microiron-based dechlorination in water by contact with fibrous activated carbon. Science of the Total Environment, 2019, 660, 1274-1282.	8.0	13
117	The role of nickel traces in fine chemicals for hydrodechlorination reactions with zero-valent iron. Chemical Engineering Journal, 2020, 388, 124185.	12.7	13
118	Reactions of hydrocarbons during thermodesorption from sediments. Thermochimica Acta, 1995, 263, 123-139.	2.7	12
119	On the Role of Water in Dielectric Heating with Radio Waves. Chemical Engineering and Technology, 2009, 32, 754-762.	1.5	12
120	Electrode Design for Soil Decontamination with Radio-Frequency Heating. Chemical Engineering and Technology, 2011, 34, 1652-1659.	1.5	12
121	Optimization of PDMS-embedded palladium hydrodechlorination catalysts. Chemical Engineering Journal, 2017, 319, 21-30.	12.7	12
122	Untersuchungen zur Sulfochlorierung von Paraffinen. V. Kinetische Untersuchungen Ã¼ber die Sulfochlorierung definierter Alkansulfochloride. Journal FÃ¼r Praktische Chemie, 1979, 321, 279-292.	0.2	11
123	Tendencies of aromatization in steam cracking of hydrocarbons. Industrial & Engineering Chemistry Research, 1987, 26, 2393-2397.	3.7	11
124	The evidence of NMR diffusometry on pore space heterogeneity in activated carbon. Microporous and Mesoporous Materials, 2011, 141, 184-191.	4.4	11
125	Selective dielectric heating for efficient adsorptive-catalytic cleaning of contaminated gas streams. Applied Catalysis A: General, 2014, 474, 244-249.	4.3	11
126	Validation of a modified flory-huggins concept for description of hydrophobic organic compound sorption on dissolved humic substances. Environmental Toxicology and Chemistry, 2002, 21, 1766-74.	4.3	11

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127	On the Thermal Cycloisomerization of Longâ€Chain Alkylacetylenes in the Gas Phase. Chemische Berichte, 1989, 122, 715-719.	0.2	10
128	Influence of dissolved humic substances on the mass transfer of organic compounds across the airâ€“water interface. Chemosphere, 2012, 86, 138-143.	8.2	10
129	Isotope fractionation in phase-transfer processes under thermodynamic and kinetic control â€“ Implications for diffusive fractionation in aqueous solution. Science of the Total Environment, 2018, 610-611, 495-502.	8.0	10
130	New Option for Characterizing the Mobility of Organic Compounds in Humic Acids. Environmental Science & Technology, 2009, 43, 8264-8269.	10.0	9
131	RadiowellenunterstÃ¼tzte thermische Behandlung als neue Technologie zur Trocknung und Dekontamination von Bauteilen. Chemie-Ingenieur-Technik, 2011, 83, 254-261.	0.8	9
132	Integrated water resources management under different hydrological, climatic and socio-economic conditions: results and lessons learned from a transdisciplinary IWRM project IWAS. Environmental Earth Sciences, 2014, 72, 4677-4687.	2.7	9
133	Modular System Concept For Soil Heating Using Radio-Frequency Energy. , 2010, , .		8
134	Mobile Aliphatic Domains in Humic Substances and Their Impact on Contaminant Mobility within the Matrix. Environmental Science & Technology, 2011, 45, 5164-5169.	10.0	8
135	Paramagnetic Relaxation Enhancement (PRE) as a Tool for Probing Diffusion in Environmentally Relevant Porous Media. Environmental Science & Technology, 2011, 45, 8866-8872.	10.0	8
136	Stabilization of potassium permanganate particles with manganese dioxide. Chemosphere, 2012, 86, 783-788.	8.2	8
137	Fluorescence labelling as tool for zeolite particle tracking in nanoremediation approaches. Science of the Total Environment, 2016, 550, 820-826.	8.0	8
138	Application of SPME to study sorption phenomena on dissolved humic organic matter. RSC Chromatography Monographs, 0, , 111-128.	0.1	8
139	Pyrolysis of [5-14C]-1-pentene-evidence for homoallylic rearrangements at 873 K. International Journal of Chemical Kinetics, 1986, 18, 159-163.	1.6	7
140	Gasphasenpyrolyse von [2,2,3,3â€Ð₄] Phenylcyclopropan. Chemische Berichte, 1989, 122, 721-725.	0.2	7
141	Comment on â€œAdsorption of CO2and N2on Soil Organic Matter:Â Nature of Porosity, Surface Area, and Diffusion Mechanismâ€• Environmental Science & Technology, 1996, 30, 3634-3635.	10.0	7
142	Katalytische Dechlorierung von Chlorkohlenwasserstoffen aus kontaminierten GrundwÃ¤ssern. Grundwasser, 2002, 7, 140-145.	1.4	7
143	Hydrothermal Conversion of Triclosanâ€"The Role of Activated Carbon as Sorbent and Reactant. Environmental Science & Technology, 2017, 51, 1649-1653.	10.0	7
144	Comment on â€œNew Evaluation Scheme for Two-Dimensional Isotope Analysis to Decipher Biodegradation Processes:Â Application to Groundwater Contamination by MTBEâ€• Environmental Science & Technology, 2005, 39, 8541-8542.	10.0	6

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145	Combining Different Frequencies for Electrical Heating of Saturated and Unsaturated Soil Zones. Chemical Engineering and Technology, 2011, 34, 1645-1651.	1.5	6
146	Dielectric Radioâ€Frequency Heating of Zeolites â€“ Selectivity, Thermoâ€Chromatographic Pulse and Drying by Water. Chemie-Ingenieur-Technik, 2011, 83, 2260-2269.	0.8	6
147	Sorption-Induced Effects of Humic Substances on Mass Transfer of Organic Pollutants through Aqueous Diffusion Boundary Layers: the Example of Water/Air Exchange. Environmental Science & Technology, 2012, 46, 2196-2203.	10.0	6
148	Carbo-Iron - ein maÃŸgeschneidertes Reagenz zur In-situ-Grundwassersanierung. Chemie-Ingenieur-Technik, 2013, 85, 1302-1311.	0.8	6
149	Comment on â€œRe-evaluation of the century-old Langmuir isotherm for modeling adsorption phenomena in solutionâ€ published by Azizian et al. [Chemical physics 513 (2018) 99â€“104]. Chemical Physics, 2019, 517, 265-267.	1.9	6
150	Comment on â€œThermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbonâ€. Environmental Science and Technology Letters, 2021, 8, 362-363.	8.7	6
151	INTERACTION OF ORGANIC CHEMICALS (PAH, PCB, TRIAZINES, NITROAROMATICS AND ORGANOTIN) Tj ETQq1 1 0.784314 rgBT /Ove		6
152	Untersuchungen zur Sulfochlorierung von Paraffinen. IV. Ãœber die Sulfochlorierung von Isobutan. Journal FÃ¼r Praktische Chemie, 1979, 321, 107-111.	0.2	5
153	Synthese von Pent-1-en-3,3-d2 durch Wittig-Reaktion. Journal FÃ¼r Praktische Chemie, 1981, 323, 992-994.	0.2	5
154	Zur Pyrolyse von 1-14C-Pent-1-en. Journal FÃ¼r Praktische Chemie, 1983, 325, 283-292.	0.2	5
155	Ãœber die Pyrolyse von Pent-1-en-3,3-d2. Journal FÃ¼r Praktische Chemie, 1983, 325, 375-381.	0.2	5
156	Bestimmung der Isotopenverteilung in¹⁴C-markierten Kohlenwasserstoffen durch thermische Fragmentierung. Isotopes in Environmental and Health Studies, 1986, 22, 388-392.	0.2	5
157	On the Thermal Cycloisomerization of 1-Vinylnaphthalene to acenaphthene. A mechanistic D-labeling study. Journal FÃ¼r Praktische Chemie, Chemiker-Zeitung, 1994, 336, 415-420.	0.5	5
158	Relative reactivities of some carbon-hydrogen bonds in hydrogen abstraction by methyl radicals at 950 K. The Journal of Physical Chemistry, 1994, 98, 1171-1175.	2.9	5
159	Comment on â€œCritical Review of Pd-Based Catalytic Treatment of Priority Contaminants in Waterâ€. Environmental Science & Technology, 2012, 46, 11467-11468.	10.0	5
160	Water dissociation in a radio-frequency electromagnetic field with<i>ex situ</i>electrodesâ€"modelling of discharge initiation. Plasma Sources Science and Technology, 2013, 22, 025007.	3.1	5
161	Ãœber die Pyrolyse von Pent-1-en-4,4,5,5,5-d5. Journal FÃ¼r Praktische Chemie, 1983, 325, 699-707.	0.2	4
162	Studies on the Thermal Conversion of Long-chain Alkynes at high temperatures in the gas phase. Journal FÃ¼r Praktische Chemie, 1989, 331, 273-284.	0.2	4

#	ARTICLE	IF	CITATIONS
163	The thermal Aromatization of Methyl-1,3-cyclohexadienes - an important argument against commonly accepted sigmatropic 1,7-H-shift reactions. Journal FÃ¼r Praktische Chemie, Chemiker-Zeitung, 1994, 336, 201-206.	0.5	4
164	Demonstration of In Situ Radio-Frequency Heating at a Former Industrial Site. Chemical Engineering and Technology, 2013, 36, 1108-1116.	1.5	4
165	Modeling of a Thermo-chromatographic Pulse (TCP) as Radio-frequency (RF)-induced Selective Heating Effect. Journal of Microwave Power and Electromagnetic Energy, 2013, 47, 24-45.	0.8	4
166	Chemicalâ€Free Pest Control by Means of Dielectric Heating with Radio Waves: Selective Heating. Chemical Engineering and Technology, 2018, 41, 116-123.	1.5	4
167	Comments on â€œHighly Selective Removal of Perfluorinated Contaminants by Adsorption on Allâ€Silica Zeolite Betaâ€ Angewandte Chemie - International Edition, 2021, 60, 13708-13709.	13.8	4
168	Borohydride and metallic copper as a robust dehalogenation system: Selectivity assessment and system optimization. Science of the Total Environment, 2022, 810, 152065.	8.0	4
169	14C polyaromatics as radio isotope tracers for grafting analysis during heavy oil pyrolysis. Fuel, 1994, 73, 505-509.	6.4	3
170	Selectivity of Dielectric Heating: Temperature-Programmed Desorption (TPD) Experiments and Initiation of Thermo-Chromatographic Pulses. Journal of Microwave Power and Electromagnetic Energy, 2007, 42, 9-16.	0.8	3
171	Migrating Temperature â€œThermo-Chromatographicâ€•Pulses (TCP) Initiated by Radio-Frequency (RF) Heating. Journal of Microwave Power and Electromagnetic Energy, 2012, 46, 241-252.	0.8	3
172	Water dissociation in a radio-frequency electromagnetic field with<i>ex situ</i>electrodesâ€”process characterization. Plasma Sources Science and Technology, 2013, 22, 015010.	3.1	3
173	H/D-isotope fractionation due to aqueous phase diffusion â€“ Deuterated hydrocarbons revisited. Chemosphere, 2020, 258, 127357.	8.2	3
174	Zur Pyrolyse von 3-Ethylpent-2-en - Ein weiterer Hinweis auf eine Homoallyl-Umlagerung. Journal FÃ¼r Praktische Chemie, 1988, 330, 677-682.	0.2	2
175	Comment to the paper: Molecular weight and pyrolysis products distribution of polymers. I. Polystyrene (G. Audisio and F. Bertini, J. Anal. Appl. Pyrolysis, 24 (1992) 61â€“74). Journal of Analytical and Applied Pyrolysis, 1994, 28, 271-274.	5.5	2
176	Influence of Salt Impregnation on the Initiation of Thermo-Chromatographic Pulses by Dielectric Heating. Journal of Microwave Power and Electromagnetic Energy, 2007, 42, 45-54.	0.8	2
177	Ambivalent Role of Water in Thermodesorption of Hydrocarbons from Contaminated Soil. Environmental Science & Technology, 2011, 45, 732-737.	10.0	2
178	Comments on â€œReuse of Semiconductor Wastewater Using Reverse Osmosis and Metal-Immobilized Catalyst-Based Advanced Oxidation Processâ€ Industrial & Engineering Chemistry Research, 2014, 53, 18585-18586.	3.7	2
179	Chemicalâ€Free Control of Pests in Wood by Means of Dielectric Heating with Radio Waves and Microwaves. Chemie-Ingenieur-Technik, 2014, 86, 1187-1197.	0.8	2
180	Comparison of Microwave and Radio-Frequency Heating of Dealuminated Zeolites and Al2O3. Journal of Microwave Power and Electromagnetic Energy, 2015, 49, 225-244.	0.8	2

#	Article	IF	Citations
181	Water dissociation in a radio-frequency electromagnetic field with<i>ex situ</i>electrodesâ€”decomposition of perfluorooctanoic acid and tetrahydrofuran. Plasma Sources Science and Technology, 2016, 25, 055003.	3.1	2
182	Comment on Vapor Pressure Isotope Effects in Halogenated Organic Compounds and Alcohols Dissolved in Water. Analytical Chemistry, 2017, 89, 10637-10638.	6.5	2
183	Formation of ethyl and vinyl aromatics during the pyrolysis of methyl aromatics and acetone. Journal of Analytical and Applied Pyrolysis, 1986, 9, 335-338.	5.5	1
184	Adsorbent Regeneration by Nonâ€thermal Plasma for Elimination of Odorous Compounds from Indoor Air. Chemical Engineering and Technology, 2019, 42, 1144-1152.	1.5	1
185	Long-range catalytic hydrodechlorination of preadsorbed DDT at ambient temperature. Applied Catalysis B: Environmental, 2022, 304, 120966.	20.2	1
186	Indications of a puzzling mechanism in the pyrolysis of 1,3-bitadiene. Tetrahedron Letters, 1983, 24, 869-872.	1.4	0
187	Bestimmung der Isotopenverteilung in 14C-markierten Kohlenwasserstoffen durch thermische Fragmentierung â€” Eine neue vorteilhafte Variante. Isotopes in Environmental and Health Studies, 1989, 25, 327-329.	0.2	0
188	Comment on â€œReactions of Polynuclear Aromatic Hydrocarbons on Soilâ€ Environmental Science & Technology, 1997, 31, 306-306.	10.0	0
189	Comment on â€œReaction of Polycyclic Aromatic Hydrocarbons Adsorbed on Silica in Aqueous Chlorineâ€ Environmental Science & Technology, 2007, 41, 6315-6315.	10.0	0
190	Principal Limitations in Homogeneous Gas Phase Chemistry in Non-Thermal Plasmas. Plasma Chemistry and Plasma Processing, 2011, 31, 307-314.	2.4	0
191	Comment to the article â€œHydroxyl radical scavenging by solid mineral surfaces in oxidative treatment systems: Rate constants and implicationsâ€published by K. Rusevova Crincoli and S. G. Huling in Water Research 169, 2020, 115240. Water Research, 2020, 186, 116308.	11.3	0
192	Comments on â€œHighly Selective Removal of Perfluorinated Contaminants by Adsorption on Allâ€Silica Zeolite Betaâ€ Angewandte Chemie, 2021, 133, 13824-13825.	2.0	0