

# David F Ollis

## List of Publications by Year in descending order

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73  
papers

6,764  
citations

87401

40  
h-index

100535

70  
g-index

74  
all docs

74  
docs citations

74  
times ranked

5210  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of Photocatalyzed Reactions: Five Lessons Learned. <i>Frontiers in Chemistry</i> , 2018, 6, 378.	1.8	72
2	Design Approaches for a Cycling Adsorbent/Photocatalyst System for Indoor Air Purification: Formaldehyde Example. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 494-501.	0.9	2
3	Kinetic Modeling of Photocatalyzed Soot Oxidation on Titanium Dioxide Thin Films. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 7598-7604.	1.8	25
4	Decolorization of organic dyes on Pilkington Activâ„¢ photocatalytic glass. <i>Catalysis Today</i> , 2007, 123, 177-188.	2.2	44
5	Kinetics of Liquid Phase Semiconductor Photoassisted Reactions: A Supporting Observations for a Pseudo-Steady-State Model. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14386-14390.	1.2	49
6	Kinetics of dye decolorization in an airâ€“solid system. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 315-325.	10.8	43
7	Dynamic model for mass transfer of solutes in cucumber fermentation. <i>Journal of Food Engineering</i> , 2005, 68, 297-302.	2.7	5
8	Kinetic Disguises in Heterogeneous Photocatalysis. <i>Topics in Catalysis</i> , 2005, 35, 217-223.	1.3	72
9	Kinetics of Liquid Phase Photocatalyzed Reactions: A An Illuminating Approach. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2439-2444.	1.2	225
10	Engineering Aspects of the Integration of Chemical and Biological Oxidation: Simple Mechanistic Models for the Oxidation Treatment. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 967-974.	0.7	59
11	Integrating Photocatalysis and Membrane Technologies for Water Treatment. <i>Annals of the New York Academy of Sciences</i> , 2003, 984, 65-84.	1.8	49
12	Sequential Ozonation and Biological Oxidation of Wastewaters: A Model Including Biomass Inhibition by Residual Oxidant. <i>Ozone: Science and Engineering</i> , 2003, 25, 95-105.	1.4	8
13	Photocatalytic Powder Layer Reactor: A Uniformly Mixed Gas Phase Occurring in a Catalytic Fixed-Bed Flow Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 6409-6412.	1.8	10
14	Photocatalytic purification and remediation of contaminated air and water. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2000, 3, 405-411.	0.1	58
15	Construction of a Thread Coater and Use of Azocasein Release To Characterize the Sealant Coat Porosity of Fibers Coated with Latex Biocatalytic Coatings. <i>Biotechnology Progress</i> , 1999, 15, 383-390.	1.3	2
16	Photocatalyzed oxidation of alcohols and organochlorides in the presence of native TiO <sub>2</sub> and metallized TiO <sub>2</sub> suspensions. Part (I): photocatalytic activity and pH influence. <i>Water Research</i> , 1999, 33, 661-668.	5.3	141
17	Photocatalyzed oxidation of alcohols and organochlorides in the presence of native TiO <sub>2</sub> and metallized TiO <sub>2</sub> suspensions. Part (II): Photocatalytic mechanisms. <i>Water Research</i> , 1999, 33, 669-676.	5.3	153
18	Kinetic processes of photocatalytic mineralization of alcohols on metallized titanium dioxide. <i>Water Research</i> , 1999, 33, 1173-1180.	5.3	72

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19	Method for Construction of a Simple Laboratory-Scale Nonwoven Filament Biocatalytic Filter. <i>Biotechnology Progress</i> , 1998, 14, 664-666.	1.3	3
20	Benzene and toluene gas-phase photocatalytic degradation over H <sub>2</sub> O and HCL pretreated TiO <sub>2</sub> : by-products and mechanisms. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 118, 197-204.	2.0	302
21	Photocatalytic Reduction and Removal of Uranium From a Uranium- EDTA Solution. <i>Journal of Advanced Oxidation Technologies</i> , 1998, 3, .	0.5	3
22	A Simple Kinetic Model for the Simultaneous Concentration and Intensity Dependencies of TCE Photocatalyzed Destruction. <i>Journal of Advanced Oxidation Technologies</i> , 1998, 3, .	0.5	6
23	Integration of Chemical and Biological Oxidation Processes for Water Treatment: II. Recent Illustrations and Experiences. <i>Journal of Advanced Oxidation Technologies</i> , 1997, 2, .	0.5	9
24	Kinetic model for batch cellulase production by <i>Trichoderma reesei</i> RUT C30. <i>Journal of Biotechnology</i> , 1997, 54, 83-94.	1.9	46
25	Simple Photocatalysis Model for Photoefficiency Enhancement via Controlled, Periodic Illumination. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2625-2631.	1.2	61
26	Economic Aspects of Integrated (Chemical + Biological) Processes for Water Treatment. <i>Journal of Advanced Oxidation Technologies</i> , 1997, 2, .	0.5	3
27	Trichloroethylene-Promoted Photocatalytic Oxidation of Air Contaminants. <i>Journal of Catalysis</i> , 1997, 167, 118-126.	3.1	77
28	TiO <sub>2</sub> photocatalyst deactivation by gas-phase oxidation of heteroatom organics. <i>Journal of Molecular Catalysis A</i> , 1997, 115, 347-354.	4.8	97
29	Heterogeneous Photocatalysis for Purification, Decontamination and Deodorization of Air. <i>Journal of Chemical Technology and Biotechnology</i> , 1997, 70, 117-140.	1.6	362
30	Heterogeneous Photocatalysis for Purification, Decontamination and Deodorization of Air. , 1997, 70, 117.		1
31	Engineering Models of Combined Chemical and Biological Processes. <i>Journal of Environmental Engineering, ASCE</i> , 1996, 122, 1110-1114.	0.7	32
32	Photocatalyzed Oxidation of Ethanol and Acetaldehyde in Humidified Air. <i>Journal of Catalysis</i> , 1996, 158, 570-582.	3.1	216
33	Heterogeneous Photocatalytic Oxidation of Trichloroethylene and Toluene Mixtures in Air: Kinetic Promotion and Inhibition, Time-Dependent Catalyst Activity. <i>Journal of Catalysis</i> , 1996, 163, 1-11.	3.1	244
34	Catalyst Deactivation in Gas-Phase Solid Photocatalysis. <i>Journal of Catalysis</i> , 1996, 163, 215-217.	3.1	90
35	Rheological, Mass Transfer, and Mixing Characterization of Cellulase-Producing <i>Trichoderma reesei</i> Suspensions. <i>Biotechnology Progress</i> , 1996, 12, 602-611.	1.3	28
36	Photocatalytic oxidation of air contaminants by chlorine (Cl) or hydroxyl (OH) radicals or holes (h <sup>+</sup> ): Mechanistic correlations. <i>Studies in Surface Science and Catalysis</i> , 1996, 101, 435-442.	1.5	4

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37	Integration of chemical and biological oxidation processes for water treatment: Review and recommendations. <i>Environmental Progress</i> , 1995, 14, 88-103.	0.8	462
38	Heterogenous photocatalytic oxidation of dilute toluene-chlorocarbon mixtures in air. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1995, 88, 169-178.	2.0	82
39	Steady and dynamic shear characterization of cellulase-producing <i>Trichoderma reesei</i> suspensions. <i>Applied Biochemistry and Biotechnology</i> , 1995, 51-52, 319-328.	1.4	2
40	Kinetics and Modeling of Lactic Acid Production by <i>Lactobacillus plantarum</i> . <i>Applied and Environmental Microbiology</i> , 1994, 60, 2627-2636.	1.4	81
41	Comparative Aspects of Advanced Oxidation Processes. <i>ACS Symposium Series</i> , 1993, , 18-34.	0.5	24
42	Photocatalyzed destruction of water contaminants. <i>Environmental Science &amp; Technology</i> , 1991, 25, 1522-1529.	4.6	1,210
43	Solar-Assisted Photocatalysis for Water Purification: Issues, Data, Questions. , 1991, , 593-622.		49
44	Microfluorimetric analysis of spatial and temporal patterns of immobilized cell growth. <i>Biotechnology and Bioengineering</i> , 1991, 38, 340-352.	1.7	44
45	Airlift bioreactors: Analysis of local two-phase hydrodynamics. <i>AIChE Journal</i> , 1991, 37, 403-428.	1.8	101
46	Product inhibition influence on immobilized cell biocatalyst performance. <i>Biotechnology Progress</i> , 1990, 6, 153-158.	1.3	17
47	A flow-cytometric analysis of hybridoma growth and monoclonal antibody production. <i>Biotechnology and Bioengineering</i> , 1990, 36, 64-73.	1.7	76
48	Heterogeneous photocatalysis for water purification: Contaminant mineralization kinetics and elementary reactor analysis. <i>Environmental Progress</i> , 1990, 9, 229-234.	0.8	99
49	Glutamine-limited batch hybridoma growth and antibody production: Experiment and model. <i>Biotechnology and Bioengineering</i> , 1990, 36, 74-82.	1.7	57
50	Mixed reactant photocatalysis: Intermediates and mutual rate inhibition. <i>Journal of Catalysis</i> , 1989, 119, 483-496.	3.1	255
51	Transient kinetics of hybridoma growth and monoclonal antibody production in serum-limited cultures. <i>Biotechnology and Bioengineering</i> , 1989, 33, 984-990.	1.7	52
52	Periodic operation of immobilized cell systems: Analysis. <i>Biotechnology and Bioengineering</i> , 1989, 34, 160-170.	1.7	28
53	The influence of cyclic nucleotides on hybridoma growth and monoclonal antibody production. <i>Biotechnology Letters</i> , 1988, 10, 781-786.	1.1	19
54	Comment. Photocatalytic reactor design: an example of mass-transfer limitations with an immobilized catalyst. <i>The Journal of Physical Chemistry</i> , 1988, 92, 6852-6853.	2.9	125

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55	Contaminant degradation in water. Environmental Science & Technology, 1985, 19, 480-484.	4.6	455
56	Solar photoassisted catalytic decomposition of the chlorinated hydrocarbons trichloroethylene and trichloromethane. Solar Energy, 1984, 32, 597-601.	2.9	119
57	Kinetics of growth of the hydrogen-oxidizing bacterium <i>Alcaligenes eutrophus</i> (ATCC 17707) in chemostat culture. Biotechnology and Bioengineering, 1984, 26, 764-770.	1.7	36
58	The heterotrophic and autotrophic growth of <i>A. eutrophus</i> : responses to biomass gasification impurities. Biotechnology and Bioengineering, 1984, 26, 1258-1260.	1.7	1
59	Degradation of chloroform by photoassisted heterogeneous catalysis in dilute aqueous suspensions of titanium dioxide. Environmental Science & Technology, 1983, 17, 628-631.	4.6	155
60	A Simple Batch Fermentation Model: Theme and Variations.. Annals of the New York Academy of Sciences, 1983, 413, 144-156.	1.8	29
61	Kinetics of Enzyme Systems. ACS Symposium Series, 1983, , 27-52.	0.5	1
62	Photoassisted heterogeneous catalysis: Definition and hydrocarbon and chlorocarbon oxidations. Geophysical Monograph Series, 1982, , 136-142.	0.1	0
63	Extracellular microbial polysaccharides: Generalized power law for biopolysaccharide solutions. Biotechnology and Bioengineering, 1982, 24, 2309-2318.	1.7	10
64	Batch fermentation kinetics with (unstable) recombinant cultures. Biotechnology and Bioengineering, 1982, 24, 2583-2586.	1.7	44
65	Kinetics of multiproduct fermentations. Biotechnology and Bioengineering, 1981, 23, 1517-1525.	1.7	31
66	Extracellular microbial polysaccharides. I. Substrate, biomass, and product kinetic equations for batch xanthan gum fermentation. Biotechnology and Bioengineering, 1980, 22, 859-873.	1.7	191
67	Extracellular microbial polysaccharides. II. Evolution of broth Power-law parameters for xanthan and pullulan batch fermentation. Biotechnology and Bioengineering, 1980, 22, 875-883.	1.7	23
68	Heterogeneous Catalysis by Optically Selective Surfaces. Catalysis Reviews - Science and Engineering, 1978, 18, 259-295.	5.7	27
69	Photoassisted heterogeneous catalysis with optical fibers: I. Isolated single fiber. AIChE Journal, 1977, 23, 415-426.	1.8	75
70	Shear viscosity of native and enzyme hydrolyzed amioca starch pastes. AIChE Journal, 1976, 22, 832-840.	1.8	9
71	Hydrogenolysis kinetics of ethane and n-pentane over unsupported copper/nickel and platinum catalysts. AIChE Journal, 1976, 22, 1112-1118.	1.8	4
72	Activity and specificity of covalently immobilized wheat germ agglutinin toward cell surfaces. Biotechnology and Bioengineering, 1973, 15, 981-992.	1.7	13

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73	Diffusion influences in denaturable insolubilized enzyme catalysis. <i>Biotechnology and Bioengineering</i> , 1972, 14, 871-884.	1.7	85