

Chien M Wai

List of Publications by Year in descending order

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120
papers

4,970
citations

94433

37
h-index

98798

67
g-index

125
all docs

125
docs citations

125
times ranked

4982
citing authors

#	ARTICLE	IF	CITATIONS
1	Supercritical fluid extraction in herbal and natural product studies " a practical review. Talanta, 2001, 53, 771-782.	5.5	573
2	Synthesizing and Dispersing Silver Nanoparticles in a Water-in-Supercritical Carbon Dioxide Microemulsion. Journal of the American Chemical Society, 1999, 121, 2631-2632.	13.7	292
3	Supercritical fluid synthesis and characterization of catalytic metal nanoparticles on carbon nanotubes. Journal of Materials Chemistry, 2004, 14, 908.	6.7	246
4	Synthesis of Silver and Copper Nanoparticles in a Water-in-Supercritical-Carbon Dioxide Microemulsion. Chemistry of Materials, 2001, 13, 4130-4135.	6.7	241
5	Chemical Fluid Deposition of Pt-Based Bimetallic Nanoparticles on Multiwalled Carbon Nanotubes for Direct Methanol Fuel Cell Application. Energy & Fuels, 2007, 21, 2268-2271.	5.1	152
6	Decorating catalytic palladium nanoparticles on carbon nanotubes in supercritical carbon dioxide. Chemical Communications, 2003, , 642-643.	4.1	145
7	Relative Catalytic Activities of Carbon Nanotube-Supported Metallic Nanoparticles for Room-Temperature Hydrogenation of Benzene. Journal of Physical Chemistry C, 2009, 113, 1520-1525.	3.1	125
8	Extraction of Toxic Heavy Metals Using Supercritical Fluid Carbon Dioxide Containing Organophosphorus Reagents. Industrial & Engineering Chemistry Research, 1997, 36, 1819-1826.	3.7	108
9	The Uranium from Seawater Program at the Pacific Northwest National Laboratory: Overview of Marine Testing, Adsorbent Characterization, Adsorbent Durability, Adsorbent Toxicity, and Deployment Studies. Industrial & Engineering Chemistry Research, 2016, 55, 4264-4277.	3.7	107
10	One-pot synthesis of B-doped three-dimensional reduced graphene oxide via supercritical fluid for oxygen reduction reaction. Green Chemistry, 2015, 17, 3552-3560.	9.0	105
11	Origin of Iron Meteorite Groups IAB and III CD. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1980, 35, 781-795.	1.5	98
12	Water-in-CO ₂ Microemulsions as Nanoreactors for Synthesizing CdS and ZnS Nanoparticles in Supercritical CO ₂ . Nano Letters, 2002, 2, 721-724.	9.1	96
13	Reductive Dechlorination of Polychlorinated Biphenyls by Zerovalent Iron in Subcritical Water. Environmental Science & Technology, 1999, 33, 1307-1310.	10.0	91
14	Arsenic in Drinking Water "A Global Environmental Problem. Journal of Chemical Education, 2004, 81, 207.	2.3	81
15	Synthesizing silver halide nanoparticles in supercritical carbon dioxide utilizing a water-in-CO ₂ microemulsion. Chemical Communications, 2000, , 2353-2354.	4.1	80
16	Ultrasonic-assisted synthesis of Pd/Pt/carbon nanotubes nanocomposites for enhanced electro-oxidation of ethanol and methanol in alkaline medium. Ultrasonics Sonochemistry, 2016, 28, 192-198.	8.2	78
17	Carbonate "H ₂ O leaching for sequestering uranium from seawater. Dalton Transactions, 2014, 43, 10713-10718.	3.3	74
18	Nebular condensation of Ga, Ge and Sb and the chemical classification of iron meteorites. Nature, 1979, 282, 790-793.	27.8	70

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19	Extraction of Lanthanides from Aqueous Solution by Using Room-Temperature Ionic Liquid and Supercritical Carbon Dioxide in Conjunction. <i>Chemistry - A European Journal</i> , 2006, 12, 1760-1766.	3.3	70
20	Relative Resistance of Positional Isomers of Polychlorinated Biphenyls toward Reductive Dechlorination by Zerovalent Iron in Subcritical Water. <i>Environmental Science & Technology</i> , 2000, 34, 2792-2798.	10.0	66
21	Elution of Uranium and Transition Metals from Amidoxime-Based Polymer Adsorbents for Sequestering Uranium from Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4313-4320.	3.7	65
22	Sonochemical One-Pot Synthesis of Carbon Nanotube-Supported Rhodium Nanoparticles for Room-Temperature Hydrogenation of Arenes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19782-19788.	3.1	64
23	Ultrasonic-assisted synthesis of carbon nanotube supported bimetallic Pt-Ru nanoparticles for effective methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8459-8465.	10.3	63
24	Superheated water extraction, steam distillation and SFE of peppermint oil. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 364, 650-653.	1.5	61
25	Facile sonochemical synthesis of carbon nanotube-supported bimetallic Pt-Rh nanoparticles for room temperature hydrogenation of arenes. <i>New Journal of Chemistry</i> , 2011, 35, 1649.	2.8	60
26	Extraction of Uranium from Aqueous Solutions by Using Ionic Liquid and Supercritical Carbon Dioxide in Conjunction. <i>Chemistry - A European Journal</i> , 2009, 15, 4458-4463.	3.3	59
27	Characterization of a Tri-n-butyl Phosphate-Nitric Acid Complex: A CO ₂ -Soluble Extractant for Dissolution of Uranium Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 5037-5041.	3.7	56
28	Fine-Tuning Size of Gold Nanoparticles by Cooling during Reverse Micelle Synthesis. <i>Langmuir</i> , 2007, 23, 10429-10432.	3.5	55
29	Ultrasound-Enhanced Dissolution of UO ₂ in Supercritical CO ₂ Containing a CO ₂ -Philic Complexant of Tri-n-butylphosphate and Nitric Acid. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 2282-2286.	3.7	53
30	Dissolution of Metal Species in Supercritical Fluids Principles and Applications. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 4837-4841.	3.7	52
31	Recyclable and Ligandless Suzuki Coupling Catalyzed by Carbon Nanotube-Supported Palladium Nanoparticles Synthesized in Supercritical Fluid. <i>Synthetic Communications</i> , 2006, 36, 3473-3478.	2.1	50
32	Newly Designed Graphene Cellular Monolith Functionalized with Hollow Pt-M (M = Ni, Co) Nanoparticles as the Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25863-25874.	8.0	46
33	High solubility of UO ₂ (NO ₃) ₂ ·2TBP complex in supercritical CO ₂ . <i>Chemical Communications</i> , 1998, , 373-374.	4.1	44
34	Complexation and Transport of Uranyl Nitrate in Supercritical Carbon Dioxide with Organophosphorus Reagents. <i>Radiochimica Acta</i> , 1996, 75, 179-184.	1.2	43
35	Supercritical Fluid Extraction of Toxic Heavy Metals and Uranium from Acidic Solutions with Sulfur-Containing Organophosphorus Reagents. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 1400-1405.	3.7	42
36	Immersion Deposition of Metal Films on Silicon and Germanium Substrates in Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2003, 15, 83-91.	6.7	39

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37	Investigations into the Reusability of Amidoxime-Based Polymeric Adsorbents for Seawater Uranium Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11603-11611.	3.7	38
38	Chemical Reactions in Supercritical Carbon Dioxide. <i>Journal of Chemical Education</i> , 1998, 75, 1641.	2.3	36
39	One-Step Synthesis of Size-Tunable Rhodium Nanoparticles on Carbon Nanotubes: A Study of Particle Size Effect on Hydrogenation of Xylene. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11364-11369.	3.1	36
40	Pressurized water extraction (PWE) of terpene trilactones from <i>Ginkgo biloba</i> leaves. <i>Green Chemistry</i> , 2003, 5, 415.	9.0	33
41	Cu(II) extraction by supercritical fluid carbon dioxide from a room temperature ionic liquid using fluorinated β -diketones. <i>Green Chemistry</i> , 2005, 7, 421.	9.0	33
42	Effect of Water on the Heck Reactions Catalyzed by Recyclable Palladium Chloride in Ionic Liquids Coupled with Supercritical CO ₂ Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4433-4435.	3.7	33
43	Towards understanding KOH conditioning of amidoxime-based polymer adsorbents for sequestering uranium from seawater. <i>RSC Advances</i> , 2015, 5, 100715-100721.	3.6	32
44	Temperature Dependence of Uranium and Vanadium Adsorption on Amidoxime-Based Adsorbents in Natural Seawater. <i>ChemistrySelect</i> , 2018, 3, 843-848.	1.5	32
45	Supercritical fluid extraction of polycyclic aromatic hydrocarbons from white pine (<i>Pinus strobus</i>) needles and its implications. <i>Journal of Environmental Monitoring</i> , 2000, 2, 639-644.	2.1	31
46	Uranium dioxide in ionic liquid with a tri-n-butylphosphate- HNO_3 complex dissolution and coordination environment. <i>Dalton Transactions</i> , 2011, 40, 5039.	3.3	31
47	Nuclear Laundry Using Supercritical Fluid Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 1580-1585.	3.7	30
48	Making ultrafine and highly-dispersive multimetallic nanoparticles in three-dimensional graphene with supercritical fluid as excellent electrocatalyst for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18628-18638.	10.3	29
49	A highly efficient uranium grabber derived from acrylic fiber for extracting uranium from seawater. <i>Dalton Transactions</i> , 2020, 49, 2803-2810.	3.3	29
50	Dissolution of Precious Metals in Supercritical Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 922-926.	3.7	28
51	Deposition of Ordered Arrays of Gold and Platinum Nanoparticles with an Adjustable Particle Size and Interparticle Spacing Using Supercritical CO ₂ . <i>Journal of Physical Chemistry C</i> , 2008, 112, 2294-2297.	3.1	27
52	Bicarbonate Elution of Uranium from Amidoxime-Based Polymer Adsorbents for Sequestering Uranium from Seawater. <i>ChemistrySelect</i> , 2017, 2, 3769-3774.	1.5	27
53	Visualization of endogenous hydrogen sulfide in living cells based on Au nanorods@silica enhanced fluorescence. <i>Analytica Chimica Acta</i> , 2019, 1053, 81-88.	5.4	27
54	Voltammetric Measurement in Supercritical CO ₂ Utilizing a Water-in-CO ₂ Microemulsion. <i>Analytical Chemistry</i> , 2000, 72, 4738-4741.	6.5	26

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55	Determination of Solubilities of Uranium Complexes in Supercritical CO ₂ by On-Line Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2000, 72, 4015-4021.	6.5	25
56	Nanoparticle film deposition using a simple and fast centrifuge sedimentation method. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 457-468.	3.1	25
57	Supercritical fluid extraction and separation of uranium from other actinides. <i>Journal of Hazardous Materials</i> , 2014, 274, 360-366.	12.4	23
58	Optimization of supercritical fluid extraction for the separation of hyperforin and adhyperforin in St. John's wort (<i>Hypericum perforatum</i> L.). <i>Green Chemistry</i> , 2002, 4, 331-336.	9.0	22
59	Characterization of Uranyl(VI) Nitrate Complexes in a Room Temperature Ionic Liquid Using Attenuated Total Reflection-Fourier Transform Infrared Spectrometry. <i>Inorganic Chemistry</i> , 2010, 49, 8568-8572.	4.0	22
60	Depositing Ordered Arrays of Metal Sulfide Nanoparticles in Nanostructures Using Supercritical Fluid Carbon Dioxide. <i>Langmuir</i> , 2010, 26, 1117-1123.	3.5	22
61	Continuous Tuning of Silver Nanoparticle Size in a Water-in-Supercritical Carbon Dioxide Microemulsion. <i>Small</i> , 2006, 2, 1266-1269.	10.0	21
62	Continuous Tuning of Cadmium Sulfide and Zinc Sulfide Nanoparticle Size in a Water-in-Supercritical Carbon Dioxide Microemulsion. <i>Chemistry - A European Journal</i> , 2007, 13, 5838-5844.	3.3	21
63	A simple high pressure flow cell for on-line absorption, Raman, and time resolved laser induced fluorescence spectroscopy in supercritical fluids. <i>Review of Scientific Instruments</i> , 1998, 69, 3127-3131.	1.3	20
64	Supercritical Fluid Extraction of Toxic Heavy Metals from Solid and Aqueous Matrices. <i>Separation Science and Technology</i> , 2003, 38, 2279-2289.	2.5	20
65	Newariat ether carboxylic and hydroxamic acids: Synthesis and lanthanide ion complexation. <i>Journal of Heterocyclic Chemistry</i> , 1998, 35, 875-885.	2.6	19
66	Selective extraction of strontium with supercritical fluid carbon dioxide. <i>Chemical Communications</i> , 1999, , 2533-2534.	4.1	19
67	APPLICATION OF SUPERCRITICAL FLUIDS TO THE REACTIVE EXTRACTION AND ANALYSIS OF TOXIC HEAVY METALS FROM ENVIRONMENTAL MATRICES—SYSTEM OPTIMISATION. <i>Separation Science and Technology</i> , 2001, 36, 1197-1210.	2.5	19
68	On-Line Speciation of Uranyl Chelates in Supercritical CO ₂ by Time-Resolved Laser-Induced Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 2001, 73, 1112-1119.	6.5	19
69	Pressurized water extraction of naphthodianthrones in St. John's wort (<i>Hypericum perforatum</i> L.). <i>Green Chemistry</i> , 2003, 5, 387.	9.0	17
70	Ultrasonic enhanced synthesis of multi-walled carbon nanotube supported Pt-Co bimetallic nanoparticles as catalysts for the oxygen reduction reaction. <i>RSC Advances</i> , 2015, 5, 32685-32689.	3.6	17
71	STUDIES ON IN-SITU CHELATION/SUPERCritical FLUID EXTRACTION OF LANTHANIDES AND ACTINIDES USING A RADIOTRACER TECHNIQUE. <i>Separation Science and Technology</i> , 2001, 36, 1149-1162.	2.5	16
72	Selective dissolution and one step separation of terpene trilactones in ginkgo leaf extracts for GC-FID determination. <i>Talanta</i> , 2001, 54, 673-680.	5.5	15

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73	Extraction of Uranium and Lanthanides from Their Oxides with a High-Pressure Mixture of TBP-HNO ₃ -H ₂ O-CO ₂ . ACS Symposium Series, 2003, , 10-22.	0.5	15
74	Sample Preparation and Determination of Ginkgo Terpene Trilactones in Selected Beverage, Snack, and Dietary Supplement Products by Liquid Chromatography with Evaporative Light-Scattering Detection. Journal of AOAC INTERNATIONAL, 2004, 87, 815-826.	1.5	15
75	Aromatic Electron Acceptors Change the Chirality Dependence of Single-Walled Carbon Nanotube Oxidation. Langmuir, 2009, 25, 10417-10421.	3.5	14
76	Two-Dimensional Nanoparticle Cluster Formation in Supercritical Fluid CO ₂ . Langmuir, 2016, 32, 4635-4642.	3.5	14
77	Kinetic Study of Hydrodechlorination of Chlorobiphenyl with Polymer-Stabilized Palladium Nanoparticles in Supercritical Carbon Dioxide. Journal of Physical Chemistry A, 2009, 113, 9772-9778.	2.5	13
78	Ultrasound-assisted synthesis of PbS quantum dots stabilized by 1,2-benzenedimethanethiol and attachment to single-walled carbon nanotubes. Ultrasonics Sonochemistry, 2014, 21, 892-900.	8.2	13
79	On-Line Time-Resolved Laser-Induced Fluorescence of UO ₂ (NO ₃) ₂ ·2TBP in Supercritical Fluid CO ₂ . Analytical Chemistry, 2000, 72, 2109-2116.	6.5	12
80	Supercritical fluid immersion deposition: a new process for selective deposition of metal films on silicon substrates. Surface and Coatings Technology, 2005, 190, 25-31.	4.8	12
81	Remediation of a nonchloro biphenyl congener with zero-valent iron in subcritical water. Journal of Environmental Monitoring, 2000, 2, 45-48.	2.1	11
82	Supercritical fluid extraction of mixed wastes. Green Chemistry, 2004, 6, 502.	9.0	11
83	Rapid and One-Step Synthesis of Single-Walled Carbon Nanotube-Supported Platinum (Pt/SWNT) Using As-Grown SWNTs through Reduction by Methanol. Energy & Fuels, 2009, 23, 1662-1667.	5.1	10
84	Modelling of the Extraction of Uranium with Supercritical Carbon Dioxide. Journal of Nuclear Science and Technology, 2001, 38, 433-438.	1.3	9
85	Supercritical Fluid Deposition of Uniform PbS Nanoparticle Films for Energy Transfer Studies. ChemPhysChem, 2012, 13, 2068-2073.	2.1	9
86	Noncovalent Attachment of PbS Quantum Dots to Single- and Multiwalled Carbon Nanotubes. Journal of Nanotechnology, 2014, 2014, 1-7.	3.4	9
87	Uranium Recovery from Seawater Using Amidoxime-Based Braided Polymers Synthesized from Acrylic Fibers. Industrial & Engineering Chemistry Research, 2020, 59, 13988-13996.	3.7	9
88	Modelling of the Extraction of Uranium with Supercritical Carbon Dioxide.. Journal of Nuclear Science and Technology, 2001, 38, 433-438.	1.3	9
89	Supercritical Fluid Extraction and High-Performance Liquid Chromatography-Diode Array-Electrochemical Detection of Signature Redox Compounds from Sand and Soil Samples. Analytical Biochemistry, 2002, 301, 225-234.	2.4	8
90	An Introduction to Separations and Processes Using Supercritical Carbon Dioxide. ACS Symposium Series, 2003, , 2-8.	0.5	8

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91	Partition Coefficients and Equilibrium Constants of Crown Ethers between Water and Organic Solvents Determined by Proton Nuclear Magnetic Resonance. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 594-598.	1.9	8
92	Assessment of Impacts of Dissolved Organic Matter and Dissolved Iron on the Performance of Amidoxime-Based Adsorbents for Seawater Uranium Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8536-8543.	3.7	8
93	Arsenic Contamination of Groundwater, Blackfoot Disease, and Other Related Health Problems. <i>ACS Symposium Series</i> , 2002, , 210-231.	0.5	6
94	Reprocessing Spent Nuclear Fuel with Supercritical Carbon Dioxide. <i>ACS Symposium Series</i> , 2006, , 57-67.	0.5	6
95	Insulating oxide film formation with acid catalyzed hydrolysis of alkoxide precursors in supercritical fluid carbon dioxide. <i>RSC Advances</i> , 2015, 5, 74753-74763.	3.6	6
96	Luminescence studies for energy transfer of lead sulfide QD films. <i>RSC Advances</i> , 2016, 6, 48651-48660.	3.6	6
97	Synthesis of new protonizable and neutral macrocyclic, macrobicyclic and macrotricyclic crown compounds containing dibenzo-18-crown-5 units. <i>Journal of Heterocyclic Chemistry</i> , 1998, 35, 1381-1387.	2.6	5
98	Extraction and Separation of Uranium and Lanthanides with Supercritical Fluids. <i>ACS Symposium Series</i> , 1999, , 390-400.	0.5	5
99	Supercritical Fluid Extraction of Radionuclides: A Green Technology for Nuclear Waste Management. <i>ACS Symposium Series</i> , 2006, , 161-170.	0.5	5
100	Interaction of Aromatic Derivatives with Single-Walled Carbon Nanotubes. <i>ChemPhysChem</i> , 2010, 11, 3439-3446.	2.1	5
101	Stereoselective Hydrogenation of Dibenzo-18-crown-6 Catalyzed by Carbon Nanotube-Supported Rhodium Nanoparticles. <i>Synthetic Communications</i> , 2011, 41, 2624-2630.	2.1	5
102	Energy transfer between lead sulfide quantum dots in the liquid phase. <i>Materials Chemistry and Physics</i> , 2014, 147, 514-520.	4.0	5
103	Selective Extraction and Separation of Actinides with Ionizable Crown Ethers. <i>Analytical Sciences</i> , 1991, 7, 41-44.	1.6	4
104	Green Separation Techniques for Nuclear Waste Management. <i>ACS Symposium Series</i> , 2010, , 53-63.	0.5	4
105	Group Contribution Method for Estimating the Solubility of Selected Hydrocarbon Solutes in Supercritical Carbon Dioxide. <i>ACS Symposium Series</i> , 1992, , 66-73.	0.5	3
106	Synthesis of macrocyclic polyethers with partially fluorinated side arms. <i>Journal of Heterocyclic Chemistry</i> , 2003, 40, 451-458.	2.6	3
107	Supercritical Fluid Extraction of Bioactive Components from St. John's Wort (<i>Hypericum perforatum</i>)	0.5	3
108	Reduction of Selected Metal Oxides in a Thermal Plasma Produced by a Nontransferred ARC Torch. <i>Materials Research Society Symposia Proceedings</i> , 1987, 98, 359.	0.1	2

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109	Hydrogenation Reactions in Supercritical CO ₂ Catalyzed by Metal Nanoparticles in a Water-in-Carbon Dioxide Microemulsion. ACS Symposium Series, 2003, , 419-429.	0.5	2
110	Synthesis of proton-ionizable acyclic, macrocyclic and macrobicyclic compounds containing one or two triazole groups. Journal of Heterocyclic Chemistry, 2005, 42, 621-629.	2.6	2
111	Fluorescence of Nafion Dispersed Single-Walled Carbon Nanotubes in Water and in Silica Composite. Journal of Physical Chemistry C, 2011, 115, 10561-10568.	3.1	2
112	Characteristics of an oxa-diamide HNO ₃ extractant in the supercritical fluid extraction of uranium. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 1693-1700.	1.5	2
113	Correction to Chemical Reactions in Supercritical Carbon Dioxide. Journal of Chemical Education, 1999, 76, 166.	2.3	1
114	Influence of the characteristics of a water-in-CO ₂ microemulsion on the separation of metal species. Separation Science and Technology, 2016, 51, 1940-1946.	2.5	1
115	Supercritical Fluid Extraction of Metal Ions. Journal of Chemical Technology and Biotechnology, 1996, 65, 295-295.	3.2	0
116	Time-Resolved Laser-Induced Fluorescence Characterization of Uranium Complexes and Processes in ScF CO ₂ . ACS Symposium Series, 2003, , 188-206.	0.5	0
117	Challenges in Assessing Bioactive Botanical Ingredients in Functional Beverages. ACS Symposium Series, 2006, , 55-72.	0.5	0
118	Deposition of Ordered Arrays of Metal Sulfide Nanoparticles in Nanostructures Using Supercritical Carbon Dioxide. Materials Research Society Symposia Proceedings, 2009, 1196, 71.	0.1	0
119	Formation of Insulating Oxide Films with Hydrolysis Reactions of Alkoxide Precursors in Supercritical Fluid CO ₂ : Chemistry, Morphology, Characterization and Film Thickness. MRS Advances, 2016, 1, 2591-2596.	0.9	0
120	Sequestering Rare Earth Elements and Precious Metals from Seawater Using a Highly Efficient Polymer Adsorbent Derived from Acrylic Fiber. Metals, 2022, 12, 849.	2.3	0