

# Charles U Pittman Jr

## List of Publications by Year in descending order

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142  
papers

4,110  
citations

361413

20  
h-index

123424

61  
g-index

194  
all docs

194  
docs citations

194  
times ranked

4439  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmaceuticals of Emerging Concern in Aquatic Systems: Chemistry, Occurrence, Effects, and Removal Methods. <i>Chemical Reviews</i> , 2019, 119, 3510-3673.	47.7	1,427
2	Polyhedral Oligomeric Silsesquioxane (POSS) Polymers and Copolymers: A Review. <i>Journal of Inorganic and Organometallic Polymers</i> , 2001, 11, 123-154.	1.5	976
3	Hybrid inorganic/organic crosslinked resins containing polyhedral oligomeric silsesquioxanes. <i>Macromolecular Symposia</i> , 2003, 196, 301-325.	0.7	119
4	Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Dispersed on Douglas Fir Biochar for Phosphate Sorption. <i>ACS Applied Nano Materials</i> , 2019, 2, 3467-3479.	5.0	111
5	Synthesis, morphology, and viscoelastic properties of cyanate ester/polyhedral oligomeric silsesquioxane nanocomposites. <i>Journal of Polymer Science Part A</i> , 2005, 43, 3887-3898.	2.3	85
6	Biochar Adsorbents with Enhanced Hydrophobicity for Oil Spill Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9248-9260.	8.0	84
7	Properties of polystyrene and polymethyl methacrylate copolymers of polyhedral oligomeric silsesquioxanes: A molecular dynamics study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 234-248.	2.1	74
8	Catalytic upgrading of bio-oil using 1-octene and 1-butanol over sulfonic acid resin catalysts. <i>Green Chemistry</i> , 2011, 13, 940.	9.0	72
9	Sustainable Low-Concentration Arsenite [As(III)] Removal in Single and Multicomponent Systems Using Hybrid Iron Oxide-Biochar Nanocomposite Adsorbents: A Mechanistic Study. <i>ACS Omega</i> , 2020, 5, 2575-2593.	3.5	64
10	Synthesis and properties of poly(isobutyl methacrylate-co-butanediol dimethacrylate-co-methacryl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 355-372.	2.3	61
11	Wood Enhancement Treatments I. Impregnation of Southern Yellow Pine with Melamine-Formaldehyde and Melamine-Ammeline-Formaldehyde Resins. <i>Journal of Wood Chemistry and Technology</i> , 1994, 14, 577-603.	1.7	45
12	XPS/ISS Investigation of Carbon Fibers Sequentially Exposed to Nitric Acid and Sodium Hydroxide. <i>Surface and Interface Analysis</i> , 1996, 24, 311-320.	1.8	40
13	Batch and Continuous Fixed-Bed Lead Removal Using Himalayan Pine Needle Biochar: Isotherm and Kinetic Studies. <i>ACS Omega</i> , 2020, 5, 16366-16378.	3.5	39
14	Assignment of the Absolute Configuration of Concentricolide: Absolute Configuration Determination of Its Bioactive Analogs Using DFT Methods. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 3987-3991.	2.4	37
15	Smart Adsorbents for Aquatic Environmental Remediation. <i>Small</i> , 2021, 17, e2007840.	10.0	37
16	Water decontamination using bio-based, chemically functionalized, doped, and ionic liquid-enhanced adsorbents: review. <i>Environmental Chemistry Letters</i> , 2021, 19, 3075-3114.	16.2	34
17	Radical-initiated polymerization of $\gamma$ -methyl- $\gamma$ -methylene- $\gamma$ -butyrolactone. <i>Journal of Polymer Science Part A</i> , 2003, 41, 1759-1777.	2.3	33
18	Reductions of Organic Functional Groups Using NaBH <sub>4</sub> OR NaBH <sub>4</sub> /LiCl in Diglyme at 125 TO 162 Å°C. <i>Synthetic Communications</i> , 1998, 28, 2027-2041.	2.1	30

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19	Selective Solid-Phase Extraction of .ALPHA-Tocopherol by Functionalized Ionic Liquid-modified Mesoporous SBA-15 Adsorbent. <i>Analytical Sciences</i> , 2008, 24, 1245-1250.	1.6	27
20	Modeling domain mixing in semi-interpenetrating polymer networks composed of poly(vinyl chloride) and 5% to 15% of crosslinked thermosets. <i>Polymer Engineering and Science</i> , 2000, 40, 2027-2036.	3.1	25
21	Reductions of Carboxylic Acids and Esters with NaBH <sub>4</sub> in Diglyme at 162°C. <i>Synthetic Communications</i> , 2003, 33, 1733-1750.	2.1	20
22	Polyhedral Oligomeric Silsesquioxane (POSS) Polymers, Copolymers, and Resin Nanocomposites. , 2005, , 79-131.		20
23	Morphology and Thermal Stability of Novolac Phenolic Resin/Clay Nanocomposites Prepared via Solution High-Shear Mixing. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 923-933.	3.6	20
24	Influence of maleated polypropylene coupling agent on mechanical and thermal behavior of latania fiber-reinforced PP/EPDM composites. <i>Polymer Composites</i> , 2018, 39, E1751.	4.6	20
25	Thermal response of carbon fiber epoxy laminates with metallic and nonmetallic protection layers to simulated lightning currents. <i>Polymer Composites</i> , 2018, 39, E2149.	4.6	20
26	The use of carbon black-supported sulfuric acid to initiate the cationic polymerization of cyclic ketene acetals. <i>Journal of Polymer Science Part A</i> , 1996, 34, 73-80.	2.3	18
27	Cationic ring-opening polymerizations of cyclic ketene acetals initiated by acids at high temperatures. <i>Journal of Polymer Science Part A</i> , 1997, 35, 3655-3671.	2.3	18
28	Unexpected Selectivity in Sodium Borohydride Reductions of $\beta$ -Substituted Esters: Experimental and Theoretical Studies. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 1981-1990.	2.4	18
29	Stable polymers from cyclic ketene acetals: Cationic polymerization initiated by acid-washed glassware or acid-washed glass beads. <i>Journal of Polymer Science Part A</i> , 1996, 34, 169-174.	2.3	16
30	Mechanical and viscoelastic properties of semi-interpenetrating polymer networks of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	3.1	16
31	Selective extraction of polyunsaturated triacylglycerols using a novel ionic liquid precursor immobilized on a mesoporous complexing adsorbent. <i>Biotechnology Progress</i> , 2009, 25, 1419-1426.	2.6	15
32	Silica Polyamine Composites: Advanced Materials for Metal Ion Recovery and Remediation. , 2005, , 51-78.		14
33	Orientation of montmorillonite clay in dicyclopentadiene/organically modified clay dispersions and nanocomposites. <i>Journal of Applied Polymer Science</i> , 2006, 102, 2743-2751.	2.6	14
34	Radical-Initiated homopolymerization and copolymerization of methylthiomethyl methacrylate. <i>Journal of Polymer Science Part A</i> , 1986, 24, 3177-3189.	2.3	13
35	Ring opening during the cationic polymerization of 2-methylene-1,3-dioxepane: Cyclic ketene acetal initiation with sulfuric acid supported on carbon. <i>Journal of Polymer Science Part A</i> , 1997, 35, 485-491.	2.3	13
36	Organotin Polymers. , 2005, , 263-310.		13

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37	Characterization, prediction, and optimization of flexural properties of vapor-grown carbon nanofiber/vinyl ester nanocomposites by response surface modeling. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2087-2099.	2.6	13
38	Radical-initiated homo- and copolymerization of methoxymethyl methacrylate. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1984, 22, 2305-2316.	0.8	12
39	Statistical characterization of the impact strengths of vapor-grown carbon nanofiber/vinyl ester nanocomposites using a central composite design. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1070-1080.	2.6	12
40	Removal of antimonate and antimonite from water by schwertmannite granules. <i>Desalination and Water Treatment</i> , 2016, 57, 25639-25652.	1.0	12
41	Temperature-dependent thermal decomposition of carbon/epoxy laminates subjected to simulated lightning currents. <i>Polymer Composites</i> , 2018, 39, E2185.	4.6	12
42	Cationic copolymerization of cyclic ketene acetals: The effect of substituents on reactivity. <i>Journal of Polymer Science Part A</i> , 1998, 36, 861-871.	2.3	11
43	Dechlorination of Pentachlorophenol and 1,2,4-Trichlorobenzene Using NaBH <sub>4</sub> and NaBH <sub>4</sub> /LiCl AT 125-315°C in Glyme Solvents. <i>Synthetic Communications</i> , 1998, 28, 517-525.	2.1	11
44	Synthesis of ArSe-Substituted Aniline Derivatives by C(sp <sup>2</sup> )-H Functionalization. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 2439-2443.	2.7	11
45	Acenaphthylene-derived perfluorocyclobutyl aromatic ether polymers. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1270-1274.	2.3	11
46	Response surface predictions of the viscoelastic properties of vapor-grown carbon nanofiber/vinyl ester nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 130, 234-247.	2.6	10
47	An improved synthesis of cyclohexenothioxanthenones. <i>Journal of Heterocyclic Chemistry</i> , 1993, 30, 1673-1675.	2.6	9
48	Cationic 1,2-vinyl addition polymerization of cyclic ketene acetals initiated by conventional acids. <i>Journal of Polymer Science Part A</i> , 1997, 35, 3707-3716.	2.3	9
49	Cationic polymerizations of substituted 2-methylene-1,3-dioxocyclic acetals, 2-methylene-1,3-dithiolane and copolymerization of 2-methylene-1,3-dithiolane with 4-(t-butyl)-2-methylene-1,3-dioxolane. <i>Journal of Polymer Science Part A</i> , 1999, 37, 2823-2840.	2.3	9
50	THE SELECTIVE DEHYDROXYLATION OF 20-HYDROXYECDYSONE BY Zn POWDER AND ANHYDROUS ACETIC ACID. <i>Synthetic Communications</i> , 2002, 32, 1385-1391.	2.1	9
51	Organotin Macromolecules as Anticancer Drugs. , 2004, , 57-73.		9
52	Liquid Phase Extraction and Separation of Noble Organometallic Catalysts by Functionalized Ionic Liquids. <i>Separation Science and Technology</i> , 2008, 43, 828-841.	2.5	9
53	Reactions of Keto-Enol Tautomers of 2-Thiazolyl-, 2-Oxazolyl-, 2-Benzoxazolyl-, or 2-Benzothiazolyl-1-phenylethenols with I <sup>±</sup> , I <sup>2</sup> -Alkynyl Esters: Syntheses of Highly Functionalized Fused-Ring Heterocycles. <i>Synthesis</i> , 2012, 44, 3337-3352.	2.3	9
54	Relative reactivities of cyclic ketene acetals via cationic 1,2-vinyl addition copolymerization. <i>Journal of Polymer Science Part A</i> , 1999, 37, 2841-2852.	2.3	8

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55	Triphenylene-Enchained Perfluorocyclobutyl Aryl Ether Polymers: A Modular Synthetic Route to Processable Thermoplastics Approaching Upper Limit $T_g$ and Photostability. <i>Macromolecules</i> , 2021, 54, 7666-7672.	4.8	8
56	A Novel Reductive Dehalogenation Using Potassium Hydroxide/Polyethylene Glycol(400)/Xylene Mixtures. <i>Synthetic Communications</i> , 1990, 20, 1091-1094.	2.1	7
57	Cationic copolymerization of 2-methylene-5,5-dimethyl-1,3-dioxane with 2-methylene-1,3-dioxolane and 2-methylene-1,3-dioxane. <i>Journal of Polymer Science Part A</i> , 1996, 34, 2195-2203.	2.3	7
58	Proton-Coupled Intramolecular Electron Transfer in Ferrocene-Quinone Conjugated Oligomers and Polymers. , 2003, , 135-159.		7
59	Solution-phase synthesis and evaluation of tetraproline chiral stationary phases. <i>Chirality</i> , 2012, 24, 329-338.	2.6	7
60	Revised Absolute Configuration of Sibircumin A: Substituent Effects in Simplified Model Structures Used for Quantum Mechanical Predictions of Chiroptical Properties. <i>Chirality</i> , 2016, 28, 612-617.	2.6	7
61	Solvent effects on radical homo- and copolymerizations of methacryloyl fluoride. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1984, 22, 85-96.	0.8	6
62	$\text{BF}_3 \cdot \frac{1}{2} \text{OEt}_2$ -initiated polymerization of 2-methylene-1,3-dioxepanes. <i>Journal of Polymer Science Part A</i> , 1998, 36, 873-881.	2.3	6
63	Polymeric Platinum-Containing Drugs in the Treatment of Cancer. , 2004, , 119-191.		6
64	A coupled-cluster approach to the relative strains in [1.1.1]propellane, its derivatives and hetero[1.1.1]propellanes. <i>Molecular Physics</i> , 2012, 110, 2349-2357.	1.7	6
65	Organogermanium Polymers. , 2005, , 225-261.		5
66	Structural Diversity, Physical Properties, and Applications of Cyanometalate Coordination Polymers. , 2005, , 155-208.		5
67	Investigations of Different Chemoselectivities in Primary, Secondary and Tertiary Amide Reactions with Sodium Borohydride. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 1991-1999.	2.4	5
68	Enantiomeric Recognition of Racemic 4-Aryl-1,4-dihydropyridine Derivatives via Chiralpak AD-H Stationary Phases. <i>Chirality</i> , 2012, 24, 854-859.	2.6	4
69	Molecular dynamics simulations of the aggregation behaviour of overlapped graphene sheets in linear aliphatic hydrocarbons. <i>Molecular Simulation</i> , 2018, 44, 947-953.	2.0	4
70	Can "biodegradability"™ of adsorbents constitute an "Achilles" heel™ in real-world water purification? Perspectives and opportunities. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107321.	6.7	4
71	Radiation-degradation susceptibility studies of vinyl terpolymers: Search for improved electron beam resists. <i>Polymer Engineering and Science</i> , 1985, 25, 83-90.	3.1	3
72	Ammeline-melamine-formaldehyde resins. Preparation and properties. <i>Journal of Polymer Science Part A</i> , 1996, 34, 2543-2561.	2.3	3

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73	Polymeric Ferrocene Conjugates as Antiproliferative Agents. , 2004, , 89-117.		3
74	Metal-Containing Polymers for Optoelectronic Applications. , 2005, , 117-140.		3
75	Smart solution chemistry: Prolonging the lifetime of <i>ortho</i> -phthalaldehyde disinfection solutions. Journal of Heterocyclic Chemistry, 2006, 43, 361-363.	2.6	3
76	Organoboron Polymers. , 2006, , 121-147.		3
77	Organometallic Polymers: The Early Days. , 2006, , 1-44.		3
78	Acid-catalyzed olefination of bio-oil in the presence of ethanol. Biofuels, 2013, 4, 285-294.	2.4	3
79	Polymerization of Olefinic Monomers Functionalized with Cationic Cyclopentadienyliron Arene Complexes. , 2003, , 233-273.		2
80	Overview of Organoiron Polymers. , 2003, , 1-27.		2
81	Ring-Opened Polyferrocenes: Metal-Containing Polymers for Materials Science, Self-Assembly, and Nanostructure Applications. , 2003, , 61-74.		2
82	Organization of Ferrocenoyl Amino Acids. , 2003, , 161-183.		2
83	Hyperbranched Poly(silylenearylene)s. , 2005, , 7-36.		2
84	Overview-Group IVA Polymers. , 2005, , 1-6.		2
85	Organometallogands as Components in Supramolecular Coordination Networks. , 2005, , 259-283.		2
86	Metal Complexes of $\pi$ -Conjugated Polymers and Related Polymers. , 2005, , 285-296.		2
87	Metallo-Supramolecular Polymers: Synthesis, Material Properties, and Potential Future Applications. , 2005, , 69-82.		2
88	Coordination/Organometallic Oligomers and Polymers of Palladium and Platinum: Focus on Metal-Containing Backbone. , 2005, , 83-116.		2
89	Silica- and Silsesquioxane-Containing Polymer Nanohybrids. , 2005, , 133-160.		2
90	Organoboron Polymer Electrolytes for Selective Lithium Cation Transport. , 2006, , 175-196.		2

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91	The State of the Art in Boron Polymer Chemistry. , 2006, , 1-76.		2
92	Polymers Incorporating Icosahedral Closo-Dicarbaborane Units. , 2006, , 77-102.		2
93	Rheological properties of poly(methyl methacrylate)/rigid ladderlike polyphenylsilsesquioxane blends. Journal of Applied Polymer Science, 2007, 104, 352-359.	2.6	2
94	Enantiomeric Separation of Racemic 4-aryl-1,4-dihydropyridines and 4-aryl-1,2,3,4-tetrahydropyrimidines on a Chiral Tetraproline Stationary Phase. Chirality, 2013, 25, 238-242.	2.6	2
95	Creep characterization of vapor-grown carbon nanofiber/vinyl ester nanocomposites using a response surface methodology. Journal of Applied Polymer Science, 2015, 132, .	2.6	2
96	Cationic copolymerization of cyclic ketene acetals: The effect of substituents on reactivity. Journal of Polymer Science Part A, 1998, 36, 861-871.	2.3	2
97	Columns: Polymer Supports in Synthesis. Polymer News, 2005, 30, 348-349.	0.1	2
98	Polymer Supports in Synthesis. Polymer News, 2005, 30, 384-385.	0.1	2
99	Structural Elucidation of the Hitherto 2,3-Dihydro-1,2,3,5-Benzothiazepine-1,1-Dioxide Ring System. Spectroscopy Letters, 1992, 25, 1333-1339.	1.0	1
100	A Practical Synthesis of 2,4-Dichloro-3-methyl-6-nitrophenol. Synthetic Communications, 1993, 23, 2785-2795.	2.1	1
101	Metal-Containing Polymers for High-Performance Resist Applications. , 2003, , 115-133.		1
102	Synthesis and Properties of Hyperbranched Polyferrocenylsilylenes. , 2003, , 29-59.		1
103	Water-Soluble Polyferrocenylsilanes for Supramolecular Assemblies by Layer-By-Layer Deposition. , 2003, , 99-114.		1
104	Synthesis and Solution Self-Assembly of Polyferrocene-Based AB Diblock and ABC Triblock Copolymers. , 2003, , 75-84.		1
105	Organometallic Compounds in Biomedical Applications. , 2004, , 1-18.		1
106	Metallopolymer Nanocomposite-Macromolecular Metallocomplexes as Precursors for Polymers, Polymer Inorganics, and Bionanocomposites. , 2005, , 87-220.		1
107	Mechanistic Aspects of the Photodegradation of Polymers Containing Metal-Metal Bonds along Their Backbones. , 2005, , 77-109.		1
108	Organolead-Containing Polymers. , 2005, , 311-331.		1

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109	Bioinspired Silica Synthesis. , 2005, , 203-223.		1
110	Novel Polyphenylazomethine Dendrimer Complexes for Fine-Controlled Metallorganic Hybrid Materials. , 2005, , 141-154.		1
111	Catalytic Activity of Macromolecules Obtained from Metal-Containing Monomers. , 2005, , 227-257.		1
112	Compositional and Structural Irregularities of Macromolecular Metal Complexes. , 2005, , 147-208.		1
113	Metal Oxide Clusters As Building Blocks for Inorganic-Organic Hybrid Polymers. , 2005, , 55-71.		1
114	Introduction to Metal-Coordination Polymers. , 2005, , 1-38.		1
115	Boron- and Nitrogen-Containing Polymers. , 2006, , 149-173.		1
116	Studies of organoclays with functionalized pillaring agents. Journal of Applied Polymer Science, 2011, 121, 2430-2441.	2.6	1
117	The use of carbon black-supported sulfuric acid to initiate the cationic polymerization of cyclic ketene acetals. Journal of Polymer Science Part A, 1996, 34, 73-80.	2.3	1
118	Cationic ring-opening polymerizations of cyclic ketene acetals initiated by acids at high temperatures. Journal of Polymer Science Part A, 1997, 35, 3655-3671.	2.3	1
119	Columns: Polymer Supports in Synthesis. Polymer News, 2005, 30, 284-285.	0.1	1
120	Polymer Supports in Synthesis. Polymer News, 2005, 30, 85-86.	0.1	1
121	Synthesis and Self-Assembly of Polyisoprene-Block -Polyferrocenyldimethylsilane Diblock Copolymers: Fabrication of Ceramic Nanolines on Semiconducting Substrates. , 2003, , 85-97.		0
122	Polyaromatic Ethers and Thioethers Coordinated to Cyclopentadienyliron Cations. , 2003, , 185-232.		0
123	Metal-Labeled DNA on Surfaces. , 2004, , 19-44.		0
124	Artificial DNA through Metal-Mediated Base Pairing: Structural Control and Discrete Metal Assembly. , 2004, , 45-55.		0
125	New Organic Polyacid-Inorganic Composites for Improved Dental Materials. , 2004, , 193-208.		0
126	Organotin Oligomeric Drugs Containing the Antiviral Agent Acyclovir. , 2004, , 75-87.		0

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127	Silole-Containing Conjugated Polymers. , 2005, , 37-49.		0
128	Zirconocene and Hafnocene-Containing Macromolecules. , 2005, , 111-146.		0
129	Polyamides Containing Metals. , 2005, , 297-324.		0
130	Ruthenium-Containing Polymers for Solar Energy Conversion. , 2005, , 325-341.		0
131	Uranium-Containing Polymers. , 2005, , 343-385.		0
132	Synthetic Strategies for Inert Metal-Skeletal Polymers. , 2005, , 39-68.		0
133	Metal Conjugates with Redox-Active $\pi$ -Conjugated Polymers or Molecules. , 2005, , 209-226.		0
134	Siloxane Elastomers and Copolymers. , 2005, , 161-201.		0
135	Metal-Containing Polydyes. , 2005, , 73-86.		0
136	Lithographic Applications of Highly Metallized Polyferrocenylsilanes. , 2005, , 49-58.		0
137	Nanocluster Assemblies and Molecular Orbital Interactions in Macromolecule-Metal Complexes. , 2005, , 1-53.		0
138	Polymers Possessing Reactive Metallacycles in the Mainchain. , 2005, , 59-76.		0
139	Column: Polymer Supports in Synthesis. Polymer News, 2005, 30, 14-15.	0.1	0
140	Boron- and Nitrogen-Containing Polymers for Advanced Materials. , 2006, , 103-120.		0
141	Columns: Polymer Supports in Synthesis. Polymer News, 2005, 30, 183-184.	0.1	0
142	Columns: Polymer Supports in Synthesis. Polymer News, 2005, 30, 213-214.	0.1	0