Uwe H F Bunz

List of Publications by Citations

428 papers	23,020 citations	76 h-index	139 g-index
455 ext. papers	24,472 ext. citations	7.7 avg, IF	7.4 L-index

#	Paper	IF	Citations
428	Poly(aryleneethynylene)s: Syntheses, Properties, Structures, and Applications. *Chemical Reviews*, **2000**, 100, 1605-44	68.1	1549
427	Chemistry. How are alkynes scrambled?. *Science*, **2005**, 308, 216-7	33.3	1460
426	Detection and identification of proteins using nanoparticle-fluorescent polymer 'chemical nose' sensors. *Nature Nanotechnology*, **2007**, 2, 318-23	28.7	666
425	Preferential end-to-end assembly of gold nanorods by biotin-streptavidin connectors. *Journal of the American Chemical Society*, **2003**, 125, 13914-5	16.4	605
424	Sensing of proteins in human serum using conjugates of nanoparticles and green fluorescent protein. *Nature Chemistry*, **2009**, 1, 461-5	17.6	397
423	Large N-heteroacenes: new tricks for very old dogs?. *Angewandte Chemie - International Edition*, **2013**, 52, 3810-21	16.4	388
422	The Larger Linear N-Heteroacenes. *Accounts of Chemical Research*, **2015**, 48, 1676-86	24.3	365
421	Polyethynylated cyclic □ystems: scaffoldings for novel two and three-dimensional carbon networks. *Chemical Society Reviews*, **1999**, 28, 107-119	58.5	335
420	Rapid and efficient identification of bacteria using gold-nanoparticle-poly(para-phenyleneethynylene) constructs. *Angewandte Chemie - International Edition*, **2008**, 47, 2590-4	16.4	334
419	Modulating the sensory response of a conjugated polymer by proteins: an agglutination assay for mercury ions in water. *Journal of the American Chemical Society*, **2006**, 128, 2818-9	16.4	316
418	Steps to demarcate the effects of chromophore aggregation and planarization in poly(phenyleneethynylene)s. 1. Rotationally interrupted conjugation in the excited states of 1,4-bis(phenylethynyl)benzene. *Journal of the American Chemical Society*, **2001**, 123, 4259-65	16.4	316
417	Gold nanoparticle-fluorophore complexes: sensitive and discerning "noses" for biosystems sensing. *Angewandte Chemie - International Edition*, **2010**, 49, 3268-79	16.4	307
416	Colorimetric bacteria sensing using a supramolecular enzyme-nanoparticle biosensor. *Journal of the American Chemical Society*, **2011**, 133, 9650-3	16.4	273
415	Evidence of Aggregate Formation for 2,5-Dialkylpoly(p-phenyleneethynylenes) in Solution and Thin Films. *Macromolecules*, **1998**, 31, 8655-8659	5.5	265
414	Detection and differentiation of normal, cancerous, and metastatic cells using nanoparticle-polymer sensor arrays. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 10912-6	11.5	259
413	Poly(p-phenyleneethynylene)s by alkyne metathesis. *Accounts of Chemical Research*, **2001**, 34, 998-1010	24.3	255
412	Cross-conjugated cruciform fluorophores. *Accounts of Chemical Research*, **2010**, 43, 397-408	24.3	243

411	Array-based sensing of proteins using conjugated polymers. *Journal of the American Chemical Society*, **2007**, 129, 9856-7	16.4	238
410	Two Luminescent Coordination Polymers with a Triple-Helix Structure: HgX2(C31H24N2)·CH2Cl2 (X = Cl and Br). *Chemistry of Materials*, **2001**, 13, 2743-2745	9.6	226
409	N-heteroacenes. *Chemistry - A European Journal*, **2009**, 15, 6780-9	4.8	222
408	Sensing of Lead Ions by a Carboxylate-Substituted PPE: Multivalency Effects. *Macromolecules*, **2005**, 38, 4560-4562	5.5	197
407	Sugar-poly(para-phenylene ethynylene) conjugates as sensory materials: efficient quenching by Hg2+ and Pb2+ ions. *Chemistry - A European Journal*, **2004**, 10, 6247-54	4.8	196
406	Switching of intramolecular charge transfer in cruciforms: metal ion sensing. *Journal of the American Chemical Society*, **2005**, 127, 4124-5	16.4	193
405	Poly(aryleneethynylene)s. *Macromolecular Rapid Communications*, **2009**, 30, 772-805	4.8	191
404	Interplay of Thermochromicity and Liquid Crystalline Behavior in Poly(p-phenyleneethynylene)s: Interactions or Planarization of the Conjugated Backbone?. *Macromolecules*, **2000**, 33, 652-654	5.5	181
403	Aggregation and interaction of cationic nanoparticles on bacterial surfaces. *Journal of the American Chemical Society*, **2012**, 134, 6920-3	16.4	180
402	Enzyme-amplified array sensing of proteins in solution and in biofluids. *Journal of the American Chemical Society*, **2010**, 132, 5285-9	16.4	180
401	Noninterpenetrating Square-Grid Coordination Polymers With Dimensions of 25Å5 Å Prepared by Using N,N?-Type Ligands: The First Chiral Square-Grid Coordination Polymer. *Angewandte Chemie - International Edition*, **2002**, 41, 583-585	16.4	180
400	Alpha-oligofurans: molecules without a twist. *Angewandte Chemie - International Edition*, **2010**, 49, 5037-40	16.4	174
399	6,13-Diethynyl-5,7,12,14-tetraazapentacene. *Chemistry - A European Journal*, **2009**, 15, 4990-3	4.8	167
398	Effects of electronegative substitution on the optical and electronic properties of acenes and diazaacenes. *Nature Communications*, **2010**, 1, 91	17.4	166
397	Cruciforms as functional fluorophores: response to protons and selected metal ions. *Journal of the American Chemical Society*, **2006**, 128, 11872-81	16.4	164
396	Excited-state dynamics of oligo(p-phenyleneethynylene): quadratic coupling and torsional motions. *Journal of the American Chemical Society*, **2001**, 123, 6447-8	16.4	160
395	Polymers with Complexed Cyclobutadiene Units in the Main Chain: The First Example of a Thermotropic, Liquid Crystalline Organometallic Polymer. *Angewandte Chemie International Edition in English*, **1995**, 34, 569-571		152
394	Organometallic Carbon Chains—They Just Keep Getting Longer!. *Angewandte Chemie International Edition in English*, **1996**, 35, 969-971		150

393	Stable hexacenes through nitrogen substitution. *Angewandte Chemie - International Edition*, **2011**, 50, 8588-91	16.4	148
392	Are N,N-dihydrodiazatetracene derivatives antiaromatic?. *Journal of the American Chemical Society*, **2008**, 130, 7339-44	16.4	146
391	The larger N-heteroacenes. *Pure and Applied Chemistry*, **2010**, 82, 953-968	2.1	140
390	Groß N-Heteroacene: ein alter Hut mit neuen Federn?. *Angewandte Chemie*, **2013**, 125, 3898-3910	3.6	138
389	Nonspecific interactions of a carboxylate-substituted PPE with proteins. A cautionary tale for biosensor applications. *Langmuir*, **2005**, 21, 7985-9	4	138
388	Array-based sensing of normal, cancerous, and metastatic cells using conjugated fluorescent polymers. *Journal of the American Chemical Society*, **2010**, 132, 1018-22	16.4	136
387	Chiroptical properties of poly(p-phenyleneethynylene) copolymers in thin films: large g-values. *Journal of the American Chemical Society*, **2002**, 124, 6830-1	16.4	136
386	Permanent bubble arrays from a cross-linked poly(para-phenyleneethynylene): picoliter holes without microfabrication. *Journal of the American Chemical Society*, **2004**, 126, 3678-9	16.4	128
385	Alkyne Metathesis with Simple Catalyst Systems:Poly(p-phenyleneethynylene)s. *Journal of the American Chemical Society*, **1998**, 120, 7973-7974	16.4	126
384	Surfactochromic Conjugated Polymers: Surfactant Effects on Sugar-Substituted PPEs. *Macromolecules*, **2003**, 36, 7409-7412	5.5	125
383	Molecular recognition based on low-affinity polyvalent interactions: selective binding of a carboxylated polymer to fibronectin fibrils of live fibroblast cells. *Journal of the American Chemical Society*, **2008**, 130, 7851-3	16.4	121
382	Synthesis and Structure of PAEs. *Advances in Polymer Science*, **2005**, 1-52	1.3	115
381	An efficient synthesis of tetraazapentacenes. *Angewandte Chemie - International Edition*, **2011**, 50, 3557-60	16.4	114
380	Phenothiazine cruciforms: synthesis and metallochromic properties. *Journal of Organic Chemistry*, **2007**, 72, 6714-25	4.2	113
379	para-Connected cyclophenylenes and hemispherical polyarenes: building blocks for single-walled carbon nanotubes?. *Angewandte Chemie - International Edition*, **2012**, 51, 7094-101	16.4	109
378	Syntheses and Characterizations of One-Dimensional Coordination Polymers Generated from Cadmium Nitrate and Bipyridine Ligands. *Inorganic Chemistry*, **1999**, 38, 3056-3060	5.1	108
377	Alkyne Metathesis with Simple Catalyst Systems: Efficient Synthesis of Conjugated Polymers Containing Vinyl Groups in Main or Side Chain. *Journal of the American Chemical Society*, **2000**, 122, 12435-12440	16.4	106
376	Solid-State Structures of Phenyleneethynylenes: Comparison of Monomers and Polymers. *Chemistry of Materials*, **1999**, 11, 1416-1424	9.6	102

375	Coronene-Containing N-Heteroarenes: 13 Rings in a Row. *Journal of the American Chemical Society*, **2016**, 138, 1792-5	16.4	101
374	Ratiometric Array of Conjugated Polymers-Fluorescent Protein Provides a Robust Mammalian Cell Sensor. *Journal of the American Chemical Society*, **2016**, 138, 4522-9	16.4	98
373	Fluorescence self-quenching of a mannosylated poly(p-phenyleneethynylene) induced by concanavalin A. *Journal of the American Chemical Society*, **2008**, 130, 6952-4	16.4	98
372	Click Chemistry as a Powerful Tool for the Construction of Functional Poly(p-phenyleneethynylene)s:Comparison of Pre- and Postfunctionalization Schemes. *Macromolecules*, **2005**, 38, 5868-5877	5.5	97
371	Cell surface-based differentiation of cell types and cancer states using a gold nanoparticle-GFP based sensing array. *Chemical Science*, **2010**, 1, 134	9.4	95
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369	1,3-Dipolar Cycloaddition for the Generation of Nanostructured Semiconductors by Heated Probe Tips. *Macromolecules*, **2006**, 39, 6793-6795	5.5	92
368	N-Heteroacenes and N-Heteroarenes as N-Nanocarbon Segments. *Accounts of Chemical Research*, **2019**, 52, 1575-1587	24.3	91
367	Poly(fluorenyleneethynylene)s by Alkyne Metathesis:Optical Properties and Aggregation Behavior. *Macromolecules*, **2000**, 33, 3961-3963	5.5	91
366	Mannose-substituted PPEs detect lectins: a model for Ricin sensing. *Chemical Communications*, **2005**, 1273-5	5.8	90
365	Reduced fluorescence quenching of cyclodextrin-acetylene dye rotaxanes. *Journal of the American Chemical Society*, **2006**, 128, 7714-5	16.4	90
364	High Molecular Weight Poly(p-phenyleneethynylene)s by Alkyne Metathesis Utilizing Instant Catalysts: A Synthetic Study. *Macromolecules*, **1999**, 32, 4194-4203	5.5	89
363	New Crystalline Frameworks Formed from 1,2-Bis(4-pyridyl)ethyne and Co(NO3)2: Interpenetrating Molecular Ladders and an Unexpected Molecular Parquet Pattern from T-Shaped Building Blocks. *Chemistry of Materials*, **1999**, 11, 1413-1415	9.6	88
362	Synthesis and explosive decomposition of organometallic dehydro[18]annulenes: an access to carbon nanostructures. *Journal of the American Chemical Society*, **2002**, 124, 13814-8	16.4	87
361	Poly(aryleneethynylene)s (PAE) as paradigmatic sensor cores. *Chemical Society Reviews*, **2015**, 44, 4322-36	58.5	86
360	Star-Shaped Tricarbonyl(cyclobutadiene)iron and Cymantrene Complexes: Building Blocks for Carbon Nets and Organometallic Construction Sets?. *Organometallics*, **1994**, 13, 3823-3833	3.8	86
359	A Polymer/Peptide Complex-Based Sensor Array That Discriminates Bacteria in Urine. *Angewandte Chemie - International Edition*, **2017**, 56, 15246-15251	16.4	84
358	A persistent diazaheptacene derivative. *Journal of the American Chemical Society*, **2014**, 136, 15166-9	16.4	84

357	Synthesis and optical properties of some novel arylene-alkynylene polymers. *Macromolecular Rapid Communications*, **1995**, 16, 571-580	4.8	84
356	Aggregation and chiroptical behavior of a high molecular weight chirally substituted dialkylpoly(p-phenyleneethynylene). *Macromolecular Rapid Communications*, **1999**, 20, 107-111	4.8	83
355	Immobilization Strategies for Organic Semiconducting Conjugated Polymers. *Chemical Reviews*, **2018**, 118, 5598-5689	68.1	77
354	Acyclic Diyne Metathesis (ADIMET), an Efficient Route to Poly(phenylene)ethynylenes (PPEs) and Nonconjugated Polyalkynylenes of High Molecular Weight. *Angewandte Chemie International Edition in English*, **1997**, 36, 506-509		76
353	Band Gap Engineering of Poly(p-phenyleneethynylene)s: Cross-Conjugated PPE–PPV Hybrids. *Macromolecules*, **2002**, 35, 8681-8683	5.5	76
352	Hydroxycruciforms: amine-responsive fluorophores. *Chemistry - A European Journal*, **2008**, 14, 4503-10	4.8	75
351	Oligonucleotide-directed assembly of materials: defined oligomers. *Journal of the American Chemical Society*, **2001**, 123, 1828-33	16.4	75
350	Polyynes—Fascinating Monomers for the Construction of Carbon Networks?**. *Angewandte Chemie International Edition in English*, **1994**, 33, 1073-1076		74
349	Quinoline-Containing, Conjugated Poly(aryleneethynylene)s: Novel Metal and H+-Responsive Materials. *Macromolecules*, **2002**, 35, 1563-1568	5.5	72
348	4n pi electrons but stable: N,N-dihydrodiazapentacenes. *Journal of Organic Chemistry*, **2009**, 74, 4343-9	4.2	71
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346	Alkynylated aceno[2,1,3]thiadiazoles. *Organic Letters*, **2009**, 11, 5222-5	6.2	70
345	Terpyridine-based cruciform-Zn2+ complexes as anion-responsive fluorophores. *Organic Letters*, **2007**, 9, 4519-22	6.2	69
344	Blue Solid-State Photoluminescence and Electroluminescence from Novel Poly(para-phenyleneethynylene) Copolymers. *Chemistry of Materials*, **2001**, 13, 2691-2696	9.6	69
343	Cruciform pi-systems: effect of aggregation on emission. *Chemical Communications*, **2004**, 1700-1	5.8	67
342	Twisted tethered tolanes: unanticipated long-lived phosphorescence at 77 K. *Journal of the American Chemical Society*, **2013**, 135, 2160-3	16.4	66
341	Discrimination of organic acids using a three molecule array based upon cruciform fluorophores. *Journal of the American Chemical Society*, **2011**, 133, 7716-8	16.4	66
340	Structure Elucidation, Packing, and Solid-State Behavior of the Eglinton–Galbraith Dimer. *Chemistry - A European Journal*, **1999**, 5, 263-266	4.8	65

339	The Palladium Way to N-Heteroacenes. *Chemistry - A European Journal*, **2016**, 22, 4680-9	4.8	65
338	Regiochemistry of the bisosmylation of fullerene C60: ortho, meta, and para in three dimensions. *Journal of the American Chemical Society*, **1992**, 114, 7954-7955	16.4	64
337	Acceleration of Singlet Fission in an Aza-Derivative of TIPS-Pentacene. *Journal of Physical Chemistry Letters*, **2014**, 5, 2425-30	6.4	63
336	Identification of White Wines by using Two Oppositely Charged Poly(p-phenyleneethynylene)s Individually and in Complex. *Angewandte Chemie - International Edition*, **2016**, 55, 7689-92	16.4	63
335	Sugar-Substituted Poly(p-phenyleneethynylene)s: Sensitivity Enhancement toward Lectins and Bacteria. *Macromolecules*, **2008**, 41, 7316-7320	5.5	60
334	Synthesis and Characterization of a 2,1,3-Benzothiadiazole-b-alkyne-b-1,4-bis(2-ethylhexyloxy)benzene Terpolymer, a Stable Low-Band-Gap Poly(heteroaryleneethynylene). *Macromolecules*, **2001**, 34, 7592-7594	5.5	60
333	N-Fused quinoxalines and benzoquinoxalines as attractive emitters for organic light emitting diodes. *Journal of Materials Chemistry C*, **2013**, 1, 5718	7.1	59
332	Photophysics of Poly[p-(2,5-didodecylphenylene)ethynylene] in Thin Films. *Macromolecules*, **2005**, 38, 5892-5896	5.5	59
331	Water-soluble cruciforms: response to protons and selected metal ions. *Journal of the American Chemical Society*, **2008**, 130, 6498-506	16.4	58
330	Sulfone-Based Deep Blue Thermally Activated Delayed Fluorescence Emitters: Solution-Processed Organic Light-Emitting Diodes with High Efficiency and Brightness. *Chemistry of Materials*, **2017**, 29, 9154-9161	9.6	57
329	Synthesis and optical properties of diaza- and tetraazatetracenes. *Chemistry - A European Journal*, **2012**, 18, 4627-33	4.8	57
328	Stabile Hexacene durch Stickstoffsubstitution. *Angewandte Chemie*, **2011**, 123, 8747-8750	3.6	57
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315	Alkyne-Bridged Carbazole Polymers by Alkyne Metathesis. *Macromolecules*, **2002**, 35, 5317-5319	5.5	50
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313	Conformational and electronic engineering of twisted diphenylacetylenes. *Organic Letters*, **2003**, 5, 3951-4	6.2	48
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311	Nano-conjugate fluorescence probe for the discrimination of phosphate and pyrophosphate. *Chemistry - A European Journal*, **2009**, 15, 449-56	4.8	46
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306	Synthesis and Mesoscopic Order of a Sugar-Coated Poly(p-phenyleneethynylene). *Macromolecules*, **2002**, 35, 7863-7864	5.5	42
305	Electron-transporting phenazinothiadiazoles with engineered microstructure. *Journal of Materials Chemistry C*, **2014**, 2, 9609-9612	7.1	41
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