

George R Newkome

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455
papers

17,536
citations

66
h-index

115
g-index

493
ext. papers

18,451
ext. citations

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6.58
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 455 | Micelles. Part 1. Cascade molecules: a new approach to micelles. A [27]-arborol. <i>Journal of Organic Chemistry</i> , 1985 , 50, 2003-2004 | 4.2 | 1017 |
| 454 | Suprasupermolecules with Novel Properties: Metallocendrimers. <i>Chemical Reviews</i> , 1999 , 99, 1689-17468.1 | 815 | |
| 453 | Square-planar Pd(II), Pt(II), and Au(III) terpyridine complexes: their syntheses, physical properties, supramolecular constructs, and biomedical activities. <i>Chemical Reviews</i> , 2008 , 108, 1834-95 | 68.1 | 521 |
| 452 | Cyclometalation of the platinum metals with nitrogen and alkyl, alkenyl, and benzyl carbon donors. <i>Chemical Reviews</i> , 1986 , 86, 451-489 | 68.1 | 371 |
| 451 | Unimolecular Micelles. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 1178-1180 | | 352 |
| 450 | Poly(amidoamine), polypropylenimine, and related dendrimers and dendrons possessing different 1->2 branching motifs: An overview of the divergent procedures. <i>Polymer</i> , 2008 , 49, 1-173 | 3.9 | 326 |
| 449 | Pyridylphosphines. <i>Chemical Reviews</i> , 1993 , 93, 2067-2089 | 68.1 | 315 |
| 448 | Dendrimers derived from 1 -> 3 branching motifs. <i>Chemical Reviews</i> , 2010 , 110, 6338-442 | 68.1 | 301 |
| 447 | 2006, | | 270 |
| 446 | Nanoassembly of a fractal polymer: a molecular "Sierpinski hexagonal gasket". <i>Science</i> , 2006 , 312, 1782-53.3 | | 245 |
| 445 | Alkane Cascade Polymers Possessing Micellar Topology: Micellanoic Acid Derivatives. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 1176-1178 | | 233 |
| 444 | Dendritic macromolecules for organic light-emitting diodes. <i>Chemical Society Reviews</i> , 2008 , 37, 2543-5758.5 | | 204 |
| 443 | Cascade molecules. Part 6. Synthesis and characterization of two-directional cascade molecules and formation of aqueous gels. <i>Journal of the American Chemical Society</i> , 1990 , 112, 8458-8465 | 16.4 | 202 |
| 442 | Terpyridine-based metallosupramolecular constructs: tailored monomers to precise 2D-motifs and 3D-metallocages. <i>Chemical Society Reviews</i> , 2018 , 47, 3991-4016 | 58.5 | 196 |
| 441 | Recent progress and applications for metallocendrimers. <i>New Journal of Chemistry</i> , 2007 , 31, 1192 | 3.6 | 190 |
| 440 | Giant surfactants provide a versatile platform for sub-10-nm nanostructure engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10078-83 | 11.5 | 180 |
| 439 | Routes to Dendritic Networks: Bis-Dendrimers by Coupling of Cascade Macromolecules through Metal Centers. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2023-2026 | | 172 |

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| 438 | Symmetrical, four-directional, poly(ether-amide) cascade polymers. <i>Macromolecules</i> , 1991 , 24, 1443-1444 | 170 |
| 437 | Chemistry of micelles series. Part 2. Cascade molecules. Synthesis and characterization of a benzene[9]3-arborol. <i>Journal of the American Chemical Society</i> , 1986 , 108, 849-850 | 16.4 164 |
| 436 | "Smart" Cascade Polymers. Modular Syntheses of Four-Directional Dendritic Macromolecules with Acidic, Neutral, or Basic Terminal Groups and the Effect of pH Changes on Their Hydrodynamic Radii. <i>Macromolecules</i> , 1994 , 27, 3464-3471 | 5.5 163 |
| 435 | Synthesis of 2,2'-Bipyridines: Versatile Building Blocks for Sexy Architectures and Functional Nanomaterials. <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 235-254 | 3.2 161 |
| 434 | Poly(polyoxometalate) Dendrimers: Molecular Prototypes of New Catalytic Materials This work was supported by the U.S. Army Research Office. We thank Dr. G. R. Baker for providing the dendritic samples and Dr. Ira A. Weinstock for discussions. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 1771-1774 | 16.4 156 |
| 433 | Construction of synthetic macrocyclic compounds possessing subheterocyclic rings, specifically pyridine, furan, and thiophene. <i>Chemical Reviews</i> , 1977 , 77, 513-597 | 68.1 155 |
| 432 | Cascade polymers. 35. pH dependence of hydrodynamic radii of acid-terminated dendrimers. <i>Macromolecules</i> , 1993 , 26, 2394-2396 | 5.5 151 |
| 431 | Chemistry of micelles. 18. Cascade polymers: syntheses and characterization of one-directional arborols based on adamantane. <i>Journal of Organic Chemistry</i> , 1991 , 56, 7162-7167 | 4.2 147 |
| 430 | Self-assembly and traveling wave ion mobility mass spectrometry analysis of hexacadmium macrocycles. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16395-7 | 16.4 142 |
| 429 | Design, synthesis, and traveling wave ion mobility mass spectrometry characterization of iron(II)- and ruthenium(II)-terpyridine metallomacrocycles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11967-76 | 16.4 136 |
| 428 | Chemistry of micelles series. 22. Cascade polymers: synthesis and characterization of four-directional spherical dendritic macromolecules based on adamantane. <i>Journal of Organic Chemistry</i> , 1992 , 57, 358-362 | 4.2 128 |
| 427 | Stoichiometric self-assembly of shape-persistent 2D complexes: a facile route to a symmetric supramolecular spoked wheel. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11450-3 | 16.4 126 |
| 426 | 2011, | 121 |
| 425 | Metallomicellans: incorporation of ruthenium(II)-2,2':6,2'-terpyridine triads into cascade polymers. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 925-927 | 121 |
| 424 | Chemistry within a Unimolecular Micelle Precursor: Boron Superclusters by Site- and Depth-Specific Transformations of Dendrimers. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 666-668 | 119 |
| 423 | From 1 -> 3 dendritic designs to fractal supramolecular constructs: understanding the pathway to the Sierpiński gasket. <i>Chemical Society Reviews</i> , 2015 , 44, 3954-67 | 58.5 118 |
| 422 | Catalytic Applications of Terpyridines and their Transition Metal Complexes. <i>ChemCatChem</i> , 2011 , 3, 1384-1406 | 5.2 115 |
| 421 | Hexagonal terpyridine--ruthenium and -iron macrocyclic complexes by stepwise and self-assembly procedures. <i>Chemistry - A European Journal</i> , 2002 , 8, 2946-54 | 4.8 110 |

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| 420 | Clicking Fullerene with Polymers: Synthesis of [60]Fullerene End-Capped Polystyrene. <i>Macromolecules</i> , 2008 , 41, 515-517 | 5.5 | 109 |
| 419 | Self- and Directed Assembly of Hexaruthenium Macrocycles. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3717-3721 | 16.4 | 108 |
| 418 | Supramolecular Self-Assemblies of Two-Directional Cascade Molecules: Automorphogenesis. <i>Angewandte Chemie International Edition in English</i> , 1992 , 31, 917-919 | | 104 |
| 417 | Polytryptophane terminated dendritic macromolecules. <i>Tetrahedron: Asymmetry</i> , 1991 , 2, 957-960 | | 101 |
| 416 | Two-directional cascade molecules: synthesis and characterization of [9]-n-[9] arborols. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 752 | | 100 |
| 415 | Nanofabrication: reversible self-assembly of an imbedded hexameric metallomacrocycle within a macromolecular superstructure. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1679-83 | 16.4 | 98 |
| 414 | Chemistry of heterocyclic compounds. 61. Synthesis and conformational studies of macrocycles possessing 1,8- or 1,5-naphthyridino subunits connected by carbon-oxygen bridges. <i>Journal of Organic Chemistry</i> , 1981 , 46, 833-839 | 4.2 | 97 |
| 413 | Bolaamphiphiles: From Golf Balls to Fibers. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 1937-1940 | | 96 |
| 412 | Stoichiometric self-assembly of isomeric, shape-persistent, supramacromolecular bowtie and butterfly structures. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7672-5 | 16.4 | 90 |
| 411 | Cyclometallation. Palladium 2-arylpyridine complexes. <i>Journal of Organometallic Chemistry</i> , 1980 , 202, 341-350 | 2.3 | 90 |
| 410 | Probing a hidden world of molecular self-assembly: concentration-dependent, three-dimensional supramolecular interconversions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 18149-55 | 16.4 | 87 |
| 409 | Terpyridine-functionalized surfaces: redox-active, switchable, and electroactive nanoarchitecturesland. <i>Advanced Materials</i> , 2011 , 23, 3484-98 | 24 | 85 |
| 408 | Towards ordered architectures: self-assembly and stepwise procedures to the hexameric metallomacrocycles [arylbis(terpyridinyl)6FeII6-n-RuII] (n=0,2,3,5). <i>Chemistry - A European Journal</i> , 2004 , 10, 1493-500 | 4.8 | 82 |
| 407 | Gradient tandem mass spectrometry interfaced with ion mobility separation for the characterization of supramolecular architectures. <i>Analytical Chemistry</i> , 2011 , 83, 1284-90 | 7.8 | 80 |
| 406 | Dendron-tethered and templated CdS quantum dots on single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7505-9 | 16.4 | 80 |
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| 404 | One-step multicomponent self-assembly of a first-generation Sierpiński triangle: from fractal design to chemical reality. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12182-5 | 16.4 | 78 |
| 403 | Design, self-assembly, and photophysical properties of pentameric metallomacrocycles: [M5(N-hexyl[1,2-bis(2,2':6',2"-terpyridin-4-yl)]carbazole)5][M = Fe(II), Ru(II), and Zn(II)]. <i>Chemical Communications</i> , 2005 , 4672-4 | 5.8 | 77 |

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| 402 | Counterion Binding on Charged Spheres: Effect of pH and Ionic Strength on the Mobility of Carboxyl-Terminated Dendrimers. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 898-904 | 3.4 | 76 |
| 401 | Self-assembly of a supramolecular, three-dimensional, spoked, bicycle-like wheel. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7728-31 | 16.4 | 73 |
| 400 | The marriage of terpyridines and inorganic nanoparticles: synthetic aspects, characterization techniques, and potential applications. <i>Advanced Materials</i> , 2011 , 23, 5728-48 | 24 | 73 |
| 399 | Nanometric dendritic macromolecules: stepwise assembly by double(2,2':6',2"-terpyridine)ruthenium(I)connectivity. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1237-1244 | | 73 |
| 398 | Reversible self-assembly of terpyridine-functionalized graphene oxide for energy conversion. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1415-9 | 16.4 | 71 |
| 397 | Construction of a highly symmetric nanosphere via a one-pot reaction of a tristerpyridine ligand with Ru(II). <i>Journal of the American Chemical Society</i> , 2014 , 136, 8165-8 | 16.4 | 70 |
| 396 | Precise Molecular Fission and Fusion: Quantitative Self-Assembly and Chemistry of a Metallo-Cuboctahedron. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9224-9 | 16.4 | 70 |
| 395 | Unimolekulare Micellen. <i>Angewandte Chemie</i> , 1991 , 103, 1207-1209 | 3.6 | 70 |
| 394 | TerpyridineCu(II)-mediated reversible nanocomposites of single-wall carbon nanotubes: towards metallo-nanoscale architectures. <i>Chemical Communications</i> , 2006 , 1091-3 | 5.8 | 67 |
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| 389 | Hexameric palladium(II) terpyridyl metallocacycles: assembly with 4,4'-bipyridine and characterization by TWIM mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6539-6544 | 16.4 | 65 |
| 388 | Supramolecular Chemistry within Dendritic Structures. <i>Topics in Current Chemistry</i> , 1998 , 19-77 | | 65 |
| 387 | Construction of triangular metallocacycles: [M ₃ (1,2-bis(2,2':6',2"-terpyridin-4-yl-ethynyl)benzene) ₃][M = Ru(II), Fe(II), 2Ru(II)Fe(II)]]. <i>Chemical Communications</i> , 2005 , 713-5 | 5.8 | 64 |
| 386 | Synthesis and single-crystal X-ray characterization of 4,4"-functionalized 4'-(4-bromophenyl)-2,2':6',2"-terpyridines. <i>Journal of Organic Chemistry</i> , 2006 , 71, 1009-14 | 4.2 | 64 |
| 385 | Chemistry of heterocyclic compounds. Part 80. α -Methyl functionalization of electron-poor heterocycles. Chloromethyl derivatives of 2,2'-bipyridines. <i>Journal of Organic Chemistry</i> , 1982 , 47, 4116-4120 | 12.4 | 64 |

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| 384 | Complex Formation by Electrostatic Interaction between Carboxyl-Terminated Dendrimers and Oppositely Charged Polyelectrolytes. <i>Langmuir</i> , 1999 , 15, 4245-4250 | 4 | 62 |
| 383 | 18[Hexa(2,6)pyridinocoronand-6]: "Sexipyridine". <i>Journal of the American Chemical Society</i> , 1983 , 105, 5956-5957 | 16.4 | 59 |
| 382 | Paramagnetic cobalt(II) as an NMR probe of dendrimer structure: mobility and cooperativity of dendritic arms. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8583-92 | 16.4 | 58 |
| 381 | Interaction of a Polycation with Small Oppositely Charged Dendrimers. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 2347-2354 | 3.4 | 58 |
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| 378 | Unexpected isolation of a pentameric metallomacrocycle from the Fe(II)-mediated complexation of 120 degrees juxtaposed 2,2':6',2"-terpyridine ligands. <i>Chemistry - A European Journal</i> , 2010 , 16, 1768-71 | 4.8 | 55 |
| 377 | Synthesis and structural aspects of macrocyclic polyamines containing 2,2'-bipyridinyl units(s). <i>Journal of Organic Chemistry</i> , 1983 , 48, 4848-4851 | 4.2 | 55 |
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| 375 | Separation and characterization of metallosupramolecular libraries by ion mobility mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 6667-74 | 7.8 | 52 |
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| 373 | Helical and polymeric nanostructures assembled from benzene tri- and tetracarboxylic acids associated with terpyridine copper(II) complexes. <i>Chemical Communications</i> , 2005 , 465-7 | 5.8 | 51 |
| 372 | A systematic nomenclature for cascade polymers. <i>Journal of Polymer Science Part A</i> , 1993 , 31, 641-651 | 2.5 | 51 |
| 371 | Terpyridine-Based, Flexible Tripods: From a Highly Symmetric Nanosphere to Temperature-Dependent, Irreversible, 3D Isomeric Macromolecular Nanocages. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3012-3020 | 16.4 | 50 |
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| 369 | Towards larger polygonal architectures: synthesis and characterization of iron(II)- and ruthenium(II)-bis(terpyridine) metallomacrocycles. <i>Chemistry - A European Journal</i> , 2011 , 17, 7750-4 | 4.8 | 49 |
| 368 | Construction of Dendritic Assemblies: A Tailored Approach to Isomeric Metallomacromolecules by Means of Bis(2,2':6',2"-terpyridine)ruthenium(II) Connectivity. <i>Macromolecules</i> , 1998 , 31, 4382-4386 | 5.5 | 49 |
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| 363 | Intra- and intermolecular self-assembly of a 20-nm-wide supramolecular hexagonal grid. <i>Nature Chemistry</i> , 2020 , 12, 468-474 | 17.6 | 47 |
| 362 | Dendrimer electrokinetic capillary chromatography: unimolecular micellar behaviour of carboxylic acid terminated cascade macromolecules. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 2139 | | 47 |
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| 360 | Self-assembly of a family of suprametallocmacrocycles: revisiting an o-carborane bisterpyridyl building block. <i>Dalton Transactions</i> , 2014 , 43, 9604-11 | 4.3 | 45 |
| 359 | From supramolecular triangle to heteroleptic rhombus: a simple bridge can make a difference. <i>Chemical Communications</i> , 2012 , 48, 9873-5 | 5.8 | 45 |
| 358 | A Study of Dendrimer-Solute Interactions via Electrokinetic Chromatography. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2255-2261 | 16.4 | 45 |
| 357 | Regioselective Dendritic Functionalization of Cellulose. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 1999-2002 | 4.8 | 45 |
| 356 | Alkan-Kaskadenpolymere mit einer Micellen-Topologie: MicellansUre-Derivate. <i>Angewandte Chemie</i> , 1991 , 103, 1205-1207 | 3.6 | 45 |
| 355 | Complexes of Pd(II), Pt(II), Cu(II), Co(II) and Zn(II) chlorides with 6, 6?-dimethyl-2, 2?-dipyridyl. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1981 , 43, 1529-1531 | | 45 |
| 354 | On the reaction of lithium diisopropylamide with .pi.-deficient heteroaromatics. A single electron transfer mechanism. <i>Journal of Organic Chemistry</i> , 1982 , 47, 599-601 | 4.2 | 44 |
| 353 | Self-assembly, disassembly, and reassembly of gold nanorods mediated by bis(terpyridine)-metal connectivity. <i>Chemistry - A European Journal</i> , 2010 , 16, 4164-8 | 4.8 | 43 |
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| 351 | Self-assembly of a supramolecular hexagram and a supramolecular pentagram. <i>Nature Communications</i> , 2017 , 8, 15476 | 17.4 | 42 |
| 350 | A convenient synthesis of bis-homotris: 4-amino-4-[1-(3-hydroxypropyl)]-1,7-heptanediol, and 1-azoniapropellane. <i>Journal of Organic Chemistry</i> , 1988 , 53, 5552-5554 | 4.2 | 42 |
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| 346 | Detection and Functionalization of Dendrimers Possessing Free Carboxylic Acid Moieties1. <i>Macromolecules</i> , 1997 , 30, 2300-2304 | 5.5 | 39 |
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| 344 | Regioselective combinatorial-type synthesis, characterization, and physical properties of dendronized cellulose. <i>Polymer</i> , 2005 , 46, 8947-8955 | 3.9 | 39 |
| 343 | Molecular recognition using β -cyclodextrin-modified dendrimers: novel building blocks for convergent self-assembly. <i>Chemical Communications</i> , 1998 , 1821-1822 | 5.8 | 39 |
| 342 | Synthesis and characterization of metalated and cyclometalated platinum(II) and platinum(IV) complexes of β -diesters. <i>Organometallics</i> , 1989 , 8, 2513-2523 | 3.8 | 39 |
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| 340 | Palladium(II) complexes with trans bis-(carbon-metal) bonds. Ligand syntheses, complexation, x-ray analysis, and biochemical activity with supercoiled DNA. <i>Journal of the American Chemical Society</i> , 1981 , 103, 3423-3429 | 16.4 | 38 |
| 339 | Terpyridine copper(II)-polycarboxylic acid architectures: formation of dimeric, helical, and cyclic nanostructures and their included-water molecule motifs. <i>Chemical Communications</i> , 2005 , 4405-7 | 5.8 | 37 |
| 338 | Chemische Umsetzungen im Inneren einer Vorstufe von unimolekularen Micellen: Bor-Supercluster durch ortsspezifische Addition von B10H14 an Kaskadenmoleküle. <i>Angewandte Chemie</i> , 1994 , 106, 701-703 ³⁶ | 3.6 | 37 |
| 337 | Silvanols: Water-soluble calixarenes. <i>Tetrahedron Letters</i> , 1991 , 32, 1133-1136 | 2 | 37 |
| 336 | Syntheses of Amine Building Blocks for Dendritic Macromolecule Construction1. <i>Synlett</i> , 1992 , 1992, 53-54 | 2.2 | 37 |
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| 330 | Dendrimer-Metallomacrocycle Composites: Nanofiber Formation by Multi-Ion Pairing. <i>Advanced Materials</i> , 2008 , 20, 1381-1385 | 24 | 35 |
| 329 | Functional Nanohybrids Constructed via Complexation of Multiwalled Carbon Nanotubes with Novel Hexameric Metallomacrocycles. <i>Chemistry of Materials</i> , 2006 , 18, 4019-4024 | 9.6 | 35 |
| 328 | Dendron-functionalized bis(terpyridine)-iron(II) or -cadmium(II) metallomacrocycles: synthesis, traveling-wave ion-mobility mass spectrometry, and photophysical properties. <i>Chemistry - A European Journal</i> , 2011 , 17, 4830-8 | 4.8 | 34 |
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| 325 | Nicotinic acid lariat ethers: syntheses, complexation, and reduction. <i>Journal of Organic Chemistry</i> , 1985 , 50, 4238-4245 | 4.2 | 34 |
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