

Tomas Torres

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570
papers

28,622
citations

87
h-index

146
g-index

641
ext. papers

30,897
ext. citations

7.9
avg, IF

7.27
L-index

#	Paper	IF	Citations
570	Role of structural factors in the nonlinear optical properties of phthalocyanines and related compounds. <i>Chemical Reviews</i> , 2004 , 104, 3723-50	68.1	953
569	Meso-substituted porphyrins for dye-sensitized solar cells. <i>Chemical Reviews</i> , 2014 , 114, 12330-96	68.1	716
568	Covalent and noncovalent phthalocyanine-carbon nanostructure systems: synthesis, photoinduced electron transfer, and application to molecular photovoltaics. <i>Chemical Reviews</i> , 2010 , 110, 6768-816	68.1	685
567	Phthalocyanines: old dyes, new materials. Putting color in nanotechnology. <i>Chemical Communications</i> , 2007 , 2000-15	5.8	665
566	Lighting porphyrins and phthalocyanines for molecular photovoltaics. <i>Chemical Communications</i> , 2010 , 46, 7090-108	5.8	566
565	Subphthalocyanines: singular nonplanar aromatic compounds-synthesis, reactivity, and physical properties. <i>Chemical Reviews</i> , 2002 , 102, 835-53	68.1	537
564	Phthalocyanines and related compounds:organic targets for nonlinear optical applications. <i>Journal of Materials Chemistry</i> , 1998 , 8, 1671-1683		507
563	Phthalocyanines: from outstanding electronic properties to emerging applications. <i>Chemical Record</i> , 2008 , 8, 75-97	6.6	494
562	Molecular cosensitization for efficient panchromatic dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8358-62	16.4	461
561	PbS and CdS Quantum Dot-Sensitized Solid-State Solar Cells: Old Concepts, New Results. <i>Advanced Functional Materials</i> , 2009 , 19, 2735-2742	15.6	433
560	Increased light harvesting in dye-sensitized solar cells with energy relay dyes. <i>Nature Photonics</i> , 2009 , 3, 406-411	33.9	398
559	Subphthalocyanines, subporphyrazines, and subporphyrins: singular nonplanar aromatic systems. <i>Chemical Reviews</i> , 2014 , 114, 2192-277	68.1	341
558	Catalysis of recombination and its limitation on open circuit voltage for dye sensitized photovoltaic cells using phthalocyanine dyes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2906-7	16.4	296
557	Influence of peripheral substitution on the magnetic behavior of single-ion magnets based on homo- and heteroleptic Tb(III) bis(phthalocyaninate). <i>Chemistry - A European Journal</i> , 2013 , 19, 1457-65	4.8	290
556	Molecular Engineering of Peripherally And Axially Modified Phthalocyanines for Optical Limiting and Nonlinear Optics. <i>Advanced Materials</i> , 2003 , 15, 19-32	24	290
555	Chemical functionalization and characterization of graphene-based materials. <i>Chemical Society Reviews</i> , 2017 , 46, 4464-4500	58.5	285
554	Towards artificial photosynthesis: Supramolecular, donor-acceptor, porphyrin- and phthalocyanine/carbon nanostructure ensembles. <i>Coordination Chemistry Reviews</i> , 2012 , 256, 2453-2477 ^{23.2}		271

553	Facile decoration of functionalized single-wall carbon nanotubes with phthalocyanines via "click chemistry". <i>Journal of the American Chemical Society</i> , 2008 , 130, 11503-9	16.4	269
552	The unique features and promises of phthalocyanines as advanced photosensitisers for photodynamic therapy of cancer. <i>Chemical Society Reviews</i> , 2020 , 49, 1041-1056	58.5	256
551	Synthesis and Nonlinear Optical, Photophysical, and Electrochemical Properties of Subphthalocyanines. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12808-12817	16.4	247
550	Single-wall carbon nanotubes bearing covalently linked phthalocyanines--photoinduced electron transfer. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5061-8	16.4	245
549	From subphthalocyanines to subporphyrins. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2834-7	16.4	215
548	Modulating the electronic properties of porphyrinoids: a voyage from the violet to the infrared regions of the electromagnetic spectrum. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 1877-94	3.9	201
547	Subphthalocyanines: tuneable molecular scaffolds for intramolecular electron and energy transfer processes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6301-13	16.4	201
546	Long-lived photoinduced charge separation for solar cell applications in phthalocyaninefulleropyrrolidine dyad thin films. <i>Journal of Materials Chemistry</i> , 2003 , 13, 700-704		199
545	Effect of coadsorbent on the photovoltaic performance of zinc phthalocyanine-sensitized solar cells. <i>Langmuir</i> , 2008 , 24, 5636-40	4	190
544	Recent Advances in Phthalocyanine-Based Sensitizers for Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 6475-6489	3.2	186
543	Phthalocyanines for dye-sensitized solar cells. <i>Coordination Chemistry Reviews</i> , 2019 , 381, 1-64	23.2	173
542	Stabilization of charge-separated states in phthalocyanine-fullerene ensembles through supramolecular donor-acceptor interactions. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4112-8	16.4	167
541	Carboxyethynyl anchoring ligands: a means to improving the efficiency of phthalocyanine-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4375-8	16.4	156
540	Donor-acceptor phthalocyanine nanoaggregates. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12300-8	16.4	154
539	Phthalocyanines and Phthalocyanine Analogues: The Quest for Applicable Optical Properties. <i>Monatshefte für Chemie</i> , 2001 , 132, 3-11	1.4	154
538	Structure-function relationships in unsymmetrical zinc phthalocyanines for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2009 , 15, 5130-7	4.8	150
537	A voyage into the synthesis and photophysics of homo- and heterobinuclear ensembles of phthalocyanines and porphyrins. <i>Chemical Society Reviews</i> , 2013 , 42, 8049-105	58.5	148
536	Supramolecular bis(rutheniumphthalocyanine)-Perylenediimide ensembles: simple complexation as a powerful tool toward long-lived radical ion pair states. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15145-54	16.4	138

535	Perfluorinated Subphthalocyanine as a New Acceptor Material in a Small-Molecule Bilayer Organic Solar Cell. <i>Advanced Functional Materials</i> , 2009 , 19, 3435-3439	15.6	137
534	Nanoscale organization of a phthalocyanine-fullerene system: remarkable stabilization of charges in photoactive 1-D nanotubes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5811-3	16.4	137
533	State selective electron injection in non-aggregated titanium phthalocyanine sensitised nanocrystalline TiO ₂ films. <i>Chemical Communications</i> , 2004 , 2112-3	5.8	136
532	Nanochannels for supramolecular organization of luminescent guests. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8040		135
531	New generation solar cells: concepts, trends and perspectives. <i>Chemical Communications</i> , 2015 , 51, 3957-72	16.4	134
530	Metallophthalocyanines: Versatile Electron-Donating Building Blocks for Fullerene Dyads. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18485-18494	3.4	132
529	Chiral self-discrimination in a M3L2 subphthalocyanine cage. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14522-3	16.4	132
528	Subphthalocyanines: Novel Targets for Remarkable Second-Order Optical Nonlinearities. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2746-2747	16.4	132
527	Energy Level Tuning of Non-Fullerene Acceptors in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8991-7	16.4	130
526	Molecular Cosensitization for Efficient Panchromatic Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2007 , 119, 8510-8514	3.6	130
525	Sc ₃ N@C ₈₀ -ferrocene electron-donor/acceptor conjugates as promising materials for photovoltaic applications. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4173-6	16.4	129
524	Phthalocyanine-pyrene conjugates: a powerful approach toward carbon nanotube solar cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16202-11	16.4	125
523	Highly Efficient Synthesis of Chloro- and Phenoxy-Substituted Subphthalocyanines. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 2547-2551	3.2	122
522	Reversible zinc phthalocyanine fullerene ensembles. <i>Chemical Communications</i> , 2002 , 2774-5	5.8	122
521	Hemiporphyrazines as Targets for the Preparation of Molecular Materials: Synthesis and Physical Properties. <i>Chemical Reviews</i> , 1998 , 98, 563-576	68.1	120
520	A Highly Sensitive Hybrid Colorimetric and Fluorometric Molecular Probe for Cyanide Sensing Based on a Subphthalocyanine Dye. <i>Advanced Functional Materials</i> , 2006 , 16, 1166-1170	15.6	120
519	Slow electron injection on Ru-Phthalocyanine sensitized TiO ₂ . <i>Journal of the American Chemical Society</i> , 2007 , 129, 9250-1	16.4	119
518	Encapsulation of phthalocyanine supramolecular stacks into virus-like particles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6878-81	16.4	116

517	Towards tunable graphene/phthalocyanine-PPV hybrid systems. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3561-5	16.4	116
516	Functionalized dendritic oligothiophenes: ruthenium phthalocyanine complexes and their application in bulk heterojunction solar cells. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8669-76	16.4	115
515	A tightly coupled bis(zinc(II) phthalocyanine)-perylene diimide ensemble to yield long-lived radical ion pair states. <i>Organic Letters</i> , 2007 , 9, 2481-4	6.2	114
514	Porphyrinoid biohybrid materials as an emerging toolbox for biomedical light management. <i>Chemical Society Reviews</i> , 2018 , 47, 7369-7400	58.5	112
513	Synthesis and photophysics of a porphyrin-fullerene dyad assembled through Watson-Crick hydrogen bonding. <i>Chemical Communications</i> , 2005 , 1892-4	5.8	109
512	Phthalocyanines: The Need for Selective Synthetic Approaches. <i>European Journal of Organic Chemistry</i> , 2000 , 2000, 2821-2830	3.2	109
511	Third-Order Nonlinear Optical Properties of Soluble Octasubstituted Metallophthalocyanines. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 8761-8764		109
510	Synthesis and Liquid-Crystal Behavior of Metal-Free and Metal-Containing Phthalocyanines Substituted with Long-Chain Amide Groups. <i>Chemistry of Materials</i> , 1996 , 8, 1061-1066	9.6	108
509	Photoinduced charge-transfer states in subphthalocyanine-ferrocene dyads. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10680-1	16.4	107
508	Tuning photoinduced energy- and electron-transfer events in subphthalocyanine-phthalocyanine dyads. <i>Chemistry - A European Journal</i> , 2005 , 11, 3881-93	4.8	107
507	Photoinduced charge transfer and electrochemical properties of triphenylamine I(h)-Sc ₃ N@C ₈₀ donor-acceptor conjugates. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7727-34	16.4	106
506	Phthalocyanines and porphyrinoid analogues as hole- and electron-transporting materials for perovskite solar cells. <i>Chemical Society Reviews</i> , 2019 , 48, 2738-2766	58.5	105
505	Charge-transfer states in strongly coupled phthalocyanine fullerene ensembles. <i>Chemical Communications</i> , 2002 , 2056-7	5.8	105
504	Triflate-subphthalocyanines: versatile, reactive intermediates for axial functionalization at the boron atom. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3506-9	16.4	104
503	A panchromatic supramolecular fullerene-based donor-acceptor assembly derived from a peripherally substituted bodipy-zinc phthalocyanine dyad. <i>Chemistry - A European Journal</i> , 2010 , 16, 1929-40	4.8	102
502	Inclusion of C ₆₀ fullerene in a M ₃ L ₂ subphthalocyanine cage. <i>Chemical Communications</i> , 2004 , 1298-9	5.8	102
501	Alkynyl substituted phthalocyanine derivatives as targets for optical limiting. <i>Journal of Materials Chemistry</i> , 2003 , 13, 749-753		102
500	Synthesis and electrochemical properties of phthalocyanine--fullerene hybrids. <i>Chemistry - A European Journal</i> , 2000 , 6, 3600-7	4.8	102

499	A 4% Efficient Organic Solar Cell Using a Fluorinated Fused Subphthalocyanine Dimer as an Electron Acceptor. <i>Advanced Energy Materials</i> , 2011 , 1, 565-568	21.8	100
498	Synthesis of Alkynyl-Linked Phthalocyanine Dyads: PushPull Homo- and Heterodimetallic Bisphthalocyaninato Complexes. <i>Chemistry - A European Journal</i> , 1999 , 5, 2004-2013	4.8	99
497	Synthesis of Novel Unsymmetrically Substituted Push-Pull Phthalocyanines. <i>Journal of Organic Chemistry</i> , 1996 , 61, 8591-8597	4.2	99
496	Phthalocyanine-nanocarbon ensembles: from discrete molecular and supramolecular systems to hybrid nanomaterials. <i>Accounts of Chemical Research</i> , 2015 , 48, 900-10	24.3	94
495	Synthesis, characterization, and photoinduced electron transfer processes of orthogonal ruthenium phthalocyanine-fullerene assemblies. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10484-96	16.4	93
494	Metal nitride cluster fullerene M ₃ N@C ₈₀ (M=Y, Sc) based dyads: synthesis, and electrochemical, theoretical and photophysical studies. <i>Chemistry - A European Journal</i> , 2009 , 15, 864-77	4.8	92
493	Control over charge separation in phthalocyanine-anthraquinone conjugates as a function of the aggregation status. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12674-84	16.4	92
492	High excitation transfer efficiency from energy relay dyes in dye-sensitized solar cells. <i>Nano Letters</i> , 2010 , 10, 3077-83	11.5	91
491	Guanosine and fullerene derived de-aggregation of a new phthalocyanine-linked cytidine derivative. <i>Tetrahedron</i> , 2006 , 62, 2123-2131	2.4	91
490	Ru(II)-phthalocyanine sensitized solar cells: the influence of co-adsorbents upon interfacial electron transfer kinetics. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5016		90
489	Structural modulation of the dipolar-octupolar contributions to the NLO response in subphthalocyanines. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3800-6	3.4	90
488	PhthalocyanineAzacrownFullerene Multicomponent System: Synthesis, Photoinduced Processes, and Electrochemistry#. <i>Organic Letters</i> , 1999 , 1, 1807-1810	6.2	90
487	Increasing the efficiency of zinc-phthalocyanine based solar cells through modification of the anchoring ligand. <i>Energy and Environmental Science</i> , 2011 , 4, 189-194	35.4	89
486	Effect of anchoring groups in zinc phthalocyanine on the dye-sensitized solar cell performance and stability. <i>Chemical Science</i> , 2011 , 2, 1145	9.4	87
485	Synthesis of novel push-pull unsymmetrically substituted alkynyl phthalocyanines. <i>Journal of Organic Chemistry</i> , 2000 , 65, 2733-9	4.2	87
484	Synthesis, characterization, molecular structure and theoretical studies of axially fluoro-substituted subzaporphyrins. <i>Chemistry - A European Journal</i> , 2008 , 14, 1342-50	4.8	86
483	A survey on the functionalization of single-walled nanotubes. The chemical attachment of phthalocyanine moieties. <i>Nanotechnology</i> , 2003 , 14, 765-771	3.4	86
482	Electron-donating behavior of few-layer graphene in covalent ensembles with electron-accepting phthalocyanines. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4593-8	16.4	85

481	The Role of the Axial Substituent in Subphthalocyanine Acceptors for Bulk-Heterojunction Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 148-152	16.4	85
480	Linking photo- and redoxactive phthalocyanines covalently to graphene. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6421-5	16.4	85
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478	Synthesis, separation, and characterization of the topoisomers of fused bicyclic subphthalocyanine dimers. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2561-5	16.4	84
477	Self-assembly, host-guest chemistry, and photophysical properties of subphthalocyanine-based metallosupramolecular capsules. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10503-11	16.4	81
476	Modulating electronic interactions between closely spaced complementary pi surfaces with different outcomes: regio- and diastereomerically pure subphthalocyanine-C60 tris adducts. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8032-6	16.4	81
475	Molecular engineering of zinc phthalocyanines with phosphinic acid anchoring groups. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1895-8	16.4	80
474	Molecularly Engineered Phthalocyanines as Hole-Transporting Materials in Perovskite Solar Cells Reaching Power Conversion Efficiency of 17.5%. <i>Advanced Energy Materials</i> , 2017 , 7, 1601733	21.8	79
473	Immobilizing water-soluble dendritic electron donors and electron acceptors-phthalocyanines and perylene diimides-onto single wall carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6392-401	16.4	79
472	Synthesis, characterization and photophysical properties of a SWNT-phthalocyanine hybrid. <i>Chemical Communications</i> , 2007 , 2950-2	5.8	79
471	Subphthalocyanines as narrow band red-light emitting materials. <i>Tetrahedron Letters</i> , 2007 , 48, 4657-4660		77
470	A supramolecular approach for the formation of fullerene-phthalocyanine dyads. <i>Journal of Materials Chemistry</i> , 2002 , 12, 2095-2099		77
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467	Von Subphthalocyaninen zu Subporphyrinen. <i>Angewandte Chemie</i> , 2006 , 118, 2900-2903	3.6	75
466	Energy transfer processes in novel subphthalocyanine-fullerene ensembles. <i>Organic Letters</i> , 2002 , 4, 335-8	6.2	74
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464	Subphthalocyanine enantiomers: first resolution of a C3 aromatic compound by HPLC. <i>Tetrahedron Letters</i> , 2000 , 41, 6361-6365	2	73

- 463 Activating multistep charge-transfer processes in fullerene-subphthalocyanine-ferrocene molecular hybrids as a function of orbital overlap. *Journal of the American Chemical Society*, **2010**, 132, 16488-500 16.4 72
- 462 Phthalocyanines and Subphthalocyanines: Perfect Partners for Fullerenes and Carbon Nanotubes in Molecular Photovoltaics. *Advanced Energy Materials*, **2017**, 7, 1601700 21.8 71
- 461 Synthesis and photoinduced electron-transfer properties of phthalocyanine-[60]fullerene conjugates. *Chemistry - A European Journal*, **2008**, 14, 3765-75 4.8 71
- 460 PushPull Phthalocyanines: A Hammett Correlation between the Cubic Hyperpolarizability and the Donor/Acceptor Character of the Substituents. *Journal of Physical Chemistry A*, **1997**, 101, 9773-9777 2.8 70
- 459 Liquid crystalline phthalocyanine fullerene dyads. *Journal of Materials Chemistry*, **2011**, 21, 1531-1536 68
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- 457 Synthesis and photophysical characterization of a titanium(IV) phthalocyanine-C60 supramolecular dyad. *Tetrahedron*, **2006**, 62, 2097-2101 2.4 68
- 456 Decreased Recombination Through the Use of a Non-Fullerene Acceptor in a 6.4% Efficient Organic Planar Heterojunction Solar Cell. *Advanced Energy Materials*, **2014**, 4, 1301413 21.8 67
- 455 Self-organization of phthalocyanine-[60]fullerene dyads in liquid crystals. *Journal of Organic Chemistry*, **2008**, 73, 1475-80 4.2 65
- 454 Trapping fullerenes with jellyfish-like subphthalocyanines. *Chemical Science*, **2013**, 4, 1338 9.4 64
- 453 Phthalocyanine-Carbon Nanostructure Materials Assembled through Supramolecular Interactions. *Journal of Physical Chemistry Letters*, **2011**, 2, 905-13 6.4 64
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- 444 Photophysics and photovoltaic device properties of phthalocyanine fullerene dyad: conjugated polymer mixtures. *Solar Energy Materials and Solar Cells*, **2004**, 83, 201-209 6.4 59
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- 435 [2.2]Paracyclophane: a pseudoconjugated spacer for long-lived electron transfer in phthalocyanine-C60 dyads. *Journal of Materials Chemistry*, **2008**, 18, 77-82 56
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- 428 Design and Synthesis of Low-Symmetry Phthalocyanines and Related Systems **2003**, 125-160 51

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426	Incorporating multiple energy relay dyes in liquid dye-sensitized solar cells. <i>ChemPhysChem</i> , 2011 , 12, 657-61	3.2	50
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424	Novel Push-Bull Phthalocyanines as Targets for Second-Order Nonlinear Applications. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 2110-2117	2.8	50
423	Photophysical Properties of Neutral and Cationic Tetrapyrrolineporphyrazines. <i>Photochemistry and Photobiology</i> , 2000 , 71, 53-59	3.6	49
422	Thiadiazole-derived expanded heteroazaporphyrinoids. <i>Organic Letters</i> , 2001 , 3, 2153-6	6.2	48
421	Third Harmonic Generation Spectroscopy of Boron Subphthalocyanine. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 14988-14991		48
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419	Electron-accepting phthalocyanine-pyrene conjugates: towards liquid phase exfoliation of graphite and photoactive nanohybrid formation with graphene. <i>Chemical Science</i> , 2014 , 5, 3432-3438	9.4	47
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