

A multicomponent molecular approach to artificial photochemical synthesis of fullerenes and endohedral metallofullerenes

Chemical Society Reviews

45, 612-630

DOI: [10.1039/c5cs00774g](https://doi.org/10.1039/c5cs00774g)

Citation Report

#	ARTICLE	IF	CITATIONS
2	Efficient Energy-Conversion Materials for the Future: Understanding and Tailoring Charge-Transfer Processes in Carbon Nanostructures. <i>Chem</i> , 2016, 1, 531-556.	5.8	78
3	Exciton Migration and Surface Trapping for a Photonic Crystal Displaying Charge-Recombination Fluorescence. <i>Chemistry - A European Journal</i> , 2016, 22, 15420-15429.	1.7	13
4	Synthetically tuneable biomimetic artificial photosynthetic reaction centres that closely resemble the natural system in purple bacteria. <i>Chemical Science</i> , 2016, 7, 6534-6550.	3.7	22
5	Prolonged Charge Separated States in Twisted Stacks of All-Carbon Donor and Acceptor Chromophores. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4751-4756.	2.1	19
6	The Driving Force of Photoinduced Charge Separation in Metal-Cluster-Encapsulated Triphenylamine- C_{80} fullerenes. <i>Chemistry - A European Journal</i> , 2016, 22, 17305-17310.	1.7	5
7	Design and photochemical study of supramolecular donor-acceptor systems assembled via metal-ligand axial coordination. <i>Coordination Chemistry Reviews</i> , 2016, 322, 104-141.	9.5	172
8	Stabilising the lowest energy charge-separated state in a {metal chromophore - fullerene} assembly: a tuneable panchromatic absorbing donor-acceptor triad. <i>Chemical Science</i> , 2016, 7, 5908-5921.	3.7	15
9	Effects of Lewis Acids on Photoredox Catalysis. <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 397-409.	1.3	26
10	Persistent Charge-Separated States in Self-Assembled Twisted Nonsymmetric Donor-Acceptor Triads. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4765-4777.	1.5	19
11	Trinuclear Ruthenium Macrocycles: Toward Supramolecular Water Oxidation Catalysis in Pure Water. <i>ACS Energy Letters</i> , 2017, 2, 288-293.	8.8	41
12	Nanocarbons as Electron Donors and Acceptors in Photoinduced Electron-Transfer Reactions. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M3055-M3061.	0.9	17
13	Implementation of Single-Walled Carbon Nanohorns into Solar Cell Schemes. <i>Advanced Energy Materials</i> , 2017, 7, 1601883.	10.2	22
14	Solar energy conversion: From natural to artificial photosynthesis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017, 31, 36-83.	5.6	228
15	Exploring the scope of the Gewald reaction: Expansion to a four-component process. <i>Tetrahedron Letters</i> , 2017, 58, 1408-1412.	0.7	19
16	Energy versus Electron Transfer: Controlling the Excitation Transfer in Molecular Triads. <i>Chemistry - A European Journal</i> , 2017, 23, 4917-4922.	1.7	20
17	Increased Charge Separation Rates with Increasing Donor-Acceptor Distance in Molecular Triads: The Effect of Solvent Polarity. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9220-9229.	1.5	17
18	A Tunable Cyclic Container: Guest-Induced Conformational Switching, Efficient Guest Exchange, and Selective Isolation of C_{70} from a Fullerene Mixture. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1824-1835.	1.7	20
19	Covalently Modified Graphenes in Catalysis, Electrocatalysis and Photoresponsive Materials. <i>Chemistry - A European Journal</i> , 2017, 23, 15244-15275.	1.7	39

#	ARTICLE	IF	CITATIONS
20	Review "Single-Walled Carbon Nanohorn-Based Dye-Sensitized Solar Cells. ECS Journal of Solid State Science and Technology, 2017, 6, M3140-M3147.	0.9	6
21	Dithiafulvenyl-Extended <i>N</i> -Heterotriangulenes and Their Interaction with C ₆₀ : Cooperative Fluorescence. Chemistry - A European Journal, 2017, 23, 12353-12362.	1.7	8
22	Through-Space Ultrafast Photoinduced Electron Transfer Dynamics of a C ₇₀ -Encapsulated Bisporphyrin Covalent Organic Polyhedron in a Low-Dielectric Medium. Journal of the American Chemical Society, 2017, 139, 4286-4289.	6.6	58
23	Semiconductor, molecular and hybrid systems for photoelectrochemical solar fuel production. Journal of Energy Chemistry, 2017, 26, 219-240.	7.1	48
24	Influence of Anion Delocalization on Electron Transfer in a Covalent Porphyrin Donor-Peryleneimide Dimer Acceptor System. Journal of the American Chemical Society, 2017, 139, 749-756.	6.6	68
25	Channeling Exciton Migration into Electron Transfer in Formamidinium Lead Bromide Perovskite Nanocrystal/Fullerene Composites. Angewandte Chemie - International Edition, 2017, 56, 1214-1218.	7.2	42
26	Channeling Exciton Migration into Electron Transfer in Formamidinium Lead Bromide Perovskite Nanocrystal/Fullerene Composites. Angewandte Chemie, 2017, 129, 1234-1238.	1.6	15
27	Bio-directed morphology engineering towards hierarchical 1D to 3D macro/meso/nanoscale morph-tunable carbon nitride assemblies for enhanced artificial photosynthesis. Journal of Materials Chemistry A, 2017, 5, 2195-2203.	5.2	21
28	Confirming the key role of Ar ⁺ ion bombardment in the growth feature of nanostructured carbon materials by PECVD. Nanotechnology, 2017, 28, 475601.	1.3	4
29	Self-Assembled Peptide-Carbon Nitride Hydrogel as a Light-Responsive Scaffold Material. Biomacromolecules, 2017, 18, 3551-3556.	2.6	64
30	Effects of Dispersion Forces on Structure and Photoinduced Charge Separation in Organic Photovoltaics. Journal of Physical Chemistry C, 2017, 121, 20134-20140.	1.5	14
31	Increasing the lifetimes of charge separated states in porphyrin-fullerene polyads. Physical Chemistry Chemical Physics, 2017, 19, 24018-24028.	1.3	10
32	Efficient Photoinduced Energy and Electron Transfer in Zn ^{II} -Porphyrin/Fullerene Dyads with Interchromophoric Distances up to 2.6 nm and No Wire-like Connectivity. Chemistry - A European Journal, 2017, 23, 14200-14212.	1.7	14
33	Synthesis and characterization of a highly stable zinc phenylporphyrin isoxazoline-[60] fullerene dyad: Impact of coordination on the redox and fluorescence properties. Inorganic Chemistry Communication, 2017, 84, 134-137.	1.8	7
34	A nanosized Mn oxide/boron nitride composite as a catalyst for water oxidation. New Journal of Chemistry, 2017, 41, 10627-10633.	1.4	11
35	Direct estimation of the transfer integral for photoinduced electron transfer from TD DFT calculations. Physical Chemistry Chemical Physics, 2017, 19, 31007-31010.	1.3	3
36	Photoinduced Electron Transfer in 9-Substituted 10-Methylacridinium Ions. Chemistry - A European Journal, 2017, 23, 1306-1317.	1.7	45
37	Synthesis and Photoinduced Electron Transfer Reactions in a La ₂ @I _h -C ₈₀ -Phenoxazine Conjugate. ChemPlusChem, 2017, 82, 1067-1072.	1.3	11

#	ARTICLE	IF	CITATIONS
38	On the regioselectivity of the Diels–Alder cycloaddition to C ₆₀ in high spin states. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11577-11585.	1.3	10
39	Direct detection of the photoinduced charge-separated state in a Ru(<i>terpyridine</i>)–polyoxometalate molecular dyad. <i>Chemical Communications</i> , 2018, 54, 2970-2973.	2.2	21
40	Assemblies of Boron Dipyrromethene/Porphyrin, Phthalocyanine, and C ₆₀ Moieties as Artificial Models of Photosynthesis: Synthesis, Supramolecular Interactions, and Photophysical Studies. <i>Chemistry - A European Journal</i> , 2018, 24, 3862-3872.	1.7	16
41	Coexistence of distinct intramolecular electron transfer pathways in polyoxometalate based molecular triads. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11740-11748.	1.3	8
42	Tuning the Carbon Nanotube Selectivity: Optimizing Reduction Potentials and Distortion Angles in Perylenediimides. <i>Journal of the American Chemical Society</i> , 2018, 140, 5427-5433.	6.6	12
43	Artificial Photosynthesis: Learning from Nature. <i>ChemPhotoChem</i> , 2018, 2, 148-160.	1.5	51
44	Fullerenes – how 25 years of charge transfer chemistry have shaped our understanding of (interfacial) interactions. <i>Chemical Society Reviews</i> , 2018, 47, 702-714.	18.7	101
45	Katalyse der Kohlenstoffdioxid–Photoreduktion an Nanoschichten: Grundlagen und Herausforderungen. <i>Angewandte Chemie</i> , 2018, 130, 7734-7752.	1.6	27
46	Immobilization of Molecular Catalysts for Enhanced Redox Catalysis. <i>ChemCatChem</i> , 2018, 10, 1686-1702.	1.8	35
47	Optical properties and structural morphology of one-dimensional perylenediimide derivatives. <i>Journal of Luminescence</i> , 2018, 196, 455-461.	1.5	6
48	Catalysis of Carbon Dioxide Photoreduction on Nanosheets: Fundamentals and Challenges. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7610-7627.	7.2	361
49	Artificial Photosynthesis for Production of ATP, NAD(P)H, and Hydrogen Peroxide. <i>ChemPhotoChem</i> , 2018, 2, 121-135.	1.5	29
50	Noncovalent complexes of <i>h</i> -C ₈₀ fullerene with phthalocyanines. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 69-75.	1.0	21
51	Exploiting Intermolecular Interactions between Alkyl-Functionalized Redox-Active Molecule Pairs to Enhance Interfacial Electron Transfer. <i>Journal of the American Chemical Society</i> , 2018, 140, 13935-13944.	6.6	18
52	Mimicry and functions of photosynthetic reaction centers. <i>Biochemical Society Transactions</i> , 2018, 46, 1279-1288.	1.6	26
53	Covalent Radical Pairs as Spin Qubits: Influence of Rapid Electron Motion between Two Equivalent Sites on Spin Coherence. <i>Journal of the American Chemical Society</i> , 2018, 140, 13011-13021.	6.6	29
54	Synthesis of arrays containing porphyrin, chlorin, and perylene-imide constituents for panchromatic light-harvesting and charge separation. <i>RSC Advances</i> , 2018, 8, 23854-23874.	1.7	22
55	Spin Signature of the C ₆₀ Fullerene Anion: A Combined X- and D-Band EPR and DFT Study. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3915-3921.	2.1	8

#	ARTICLE	IF	CITATIONS
56	Selective prepared carbon nanomaterials for advanced photocatalytic application in environmental pollutant treatment and hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 408-424.	10.8	386
57	Ultrastrong Absorption Meets Ultraweak Absorption: Unraveling the Energy-Dissipative Routes for Dye-Sensitized Upconversion Luminescence. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4625-4631.	2.1	48
58	The electronic structures and excitation properties of three meso-pentafluorophenyl substituted zinc porphyrinâ€‘fullerene dyad. <i>Journal of Molecular Structure</i> , 2018, 1173, 398-405.	1.8	13
59	Interfacing tetrapyrridyl-C ₆₀ with porphyrin dimers <i>via</i> ĩ-conjugated bridges: artificial photosynthetic systems with ultrafast charge separation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21269-21279.	1.3	10
60	Small Carbon Quantum Dots, Large Photosynthesis Enhancement. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 9159-9161.	2.4	29
61	Expeditious Preparation of Openâ€‘Cage Fullerenes by Rhodium(I)-Catalyzed [2+2+2] Cycloaddition of Dienes and C ₆₀ : Anâ€‘Experimental and Theoretical Study. <i>Chemistry - A European Journal</i> , 2018, 24, 10653-10661.	1.7	28
62	Photoactive Porphyrinâ€‘Based Metalâ€‘Organic Framework Nanosheets. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 4815-4819.	1.0	13
63	Combining Zinc Phthalocyanines, Oligo(<i>p</i> -Phenylenevinylenes), and Fullerenes to Impact Reorganization Energies and Attenuation Factors. <i>ChemPhysChem</i> , 2019, 20, 2806-2815.	1.0	6
64	Single-Electron Lanthanide-Lanthanide Bonds Inside Fullerenes toward Robust Redox-Active Molecular Magnets. <i>Accounts of Chemical Research</i> , 2019, 52, 2981-2993.	7.6	100
65	Porphyrinoidâ€‘Fullerene Hybrids as Candidates in Artificial Photosynthetic Schemes. <i>Journal of Carbon Research</i> , 2019, 5, 57.	1.4	17
66	Remote control of electronic coupling â€‘ modification of excited-state electron-transfer rates in Ru(tpy) ₂ -based donorâ€‘acceptor systems by remote ligand design. <i>Chemical Communications</i> , 2019, 55, 2273-2276.	2.2	6
67	Kinetics and mechanisms of catalytic water oxidation. <i>Dalton Transactions</i> , 2019, 48, 779-798.	1.6	42
68	Progress and development in structural and optoelectronic tunability of supramolecular nonbonded fullerene assemblies. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6194-6216.	2.7	35
69	Intermolecular packing and charge transfer in metallofullerene/porphyrin cocrystals. <i>Chemical Communications</i> , 2019, 55, 6018-6021.	2.2	9
70	Exohedral functionalization of endohedral metallofullerenes: Interplay between inside and outside. <i>Coordination Chemistry Reviews</i> , 2019, 388, 406-439.	9.5	54
71	Study of the photoresponse of a titanium anode coated with solution-processed fullerene-containing metal porphyrin/phthalocyanine films. <i>Journal of Molecular Liquids</i> , 2019, 280, 382-388.	2.3	18
72	Photodriven Oxidation of Water by Plastoquinone Analogs with a Nonheme Iron Catalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 6748-6754.	6.6	25
73	Metal-Free Synthesis of <i>N</i> -Alkyl-2,5-Unsubstituted/Monosubstituted Fulleropyrrolidines: Reaction of [60]Fullerene with Paraformaldehyde and Amines. <i>Journal of Organic Chemistry</i> , 2019, 84, 2922-2932.	1.7	10

#	ARTICLE	IF	CITATIONS
74	Graphene and its Hybrids for Photocatalysis. <i>Current Graphene Science</i> , 2019, 2, 79-96.	0.5	1
75	Photoresponsive triazole-based donor-acceptor molecules: color change and heat/air-stable diradicals. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3100-3104.	2.7	25
76	The role of the central metal ion of ethane-bridged bis-porphyrins in histidine sensing. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 762-770.	5.0	18
77	Van der Waals effects on structure and optical properties in organic photovoltaics. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25883.	1.0	8
78	Visible light promoted porphyrin-based metal-organic adduct. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020, 24, 758-764.	0.4	0
79	Photocatalytic redox reactions with metalloporphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020, 24, 21-32.	0.4	17
80	Mono- and Tripodal Porphyrins: Investigation on the Influence of the Number of Pyrene Anchors in Carbon Nanotube and Graphene Hybrids. <i>Journal of the American Chemical Society</i> , 2020, 142, 1895-1903.	6.6	30
81	Cyclic metalloporphyrin dimers: Conformational flexibility, applications and future prospects. <i>Coordination Chemistry Reviews</i> , 2020, 405, 213117.	9.5	27
82	Photoinduced Generation of Superoxidants for the Oxidation of Substrates with High C-H Bond Dissociation Energies. <i>ChemPhotoChem</i> , 2020, 4, 271-281.	1.5	3
83	Resonance-Enhanced Charge Delocalization in Carbazole-Oligoyno-Oxadiazole Conjugates. <i>Journal of the American Chemical Society</i> , 2020, 142, 18769-18781.	6.6	12
84	Photocatalytic Hydrogen Evolution from Plastoquinol Analogues as a Potential Functional Model of Photosystem I. <i>Inorganic Chemistry</i> , 2020, 59, 14838-14846.	1.9	10
85	The structure of ScC2 (Xf2A1): A combined Fourier transform microwave/millimeter-wave spectroscopic and computational study. <i>Journal of Chemical Physics</i> , 2020, 153, 034304.	1.2	5
86	How To Make Nitroaromatic Compounds Glow: Next-Generation Large X-Shaped, Centrosymmetric Diketopyrrolopyrroles. <i>Angewandte Chemie</i> , 2020, 132, 16238-16247.	1.6	5
87	Synergie von elektrostatischen und Wechselwirkungen für die Verwirklichung von natürlichen photosynthetischen Modellsystemen auf Nano-Ebene. <i>Angewandte Chemie</i> , 2020, 132, 18946-18955.	1.6	4
88	Synergy of Electrostatic and Interactions in the Realization of Nanoscale Artificial Photosynthetic Model Systems. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18786-18794.	7.2	10
89	Controlling the Charge Transfer Mechanism and Efficiency by Means of Different C70 Regioisomeric Adducts. <i>Small Structures</i> , 2020, 1, 2000012.	6.9	2
90	Solution-phase molecular recognition of an azafullerene-quinoline dyad by a face-to-face porphyrin-dimer tweezer. <i>RSC Advances</i> , 2020, 10, 31720-31729.	1.7	1
91	Photoinduced Electron Transfer and Energy Transfer Processes in a Flexible BODIPY-C ₆₀ Dyad. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9396-9410.	1.2	16

#	ARTICLE	IF	CITATIONS
92	Generation of Long-Lived Photoinduced Charge Separation in a Supramolecular Toroidal Assembly. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9546-9555.	1.2	5
93	Facile access to amino-substituted cyclopentafullerenes: novel reaction of [60]fullerene with β^2 -substituted propionaldehydes and secondary amines in the absence/presence of magnesium perchlorate. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 6866-6880.	1.5	7
94	The intermolecular anthracene-transfer in a regiospecific antipodal C ₆₀ -difunctionalization. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4090-4103.	1.5	1
95	How To Make Nitroaromatic Compounds Glow: Next-Generation Large X-Shaped, Centrosymmetric Diketopyrrolopyrroles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16104-16113.	7.2	30
96	Covalent interactions depend on the distances between metals and fullerenes for thermodynamically stable M@C ₇₈ (M = La, Ce, and Sm). <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2538-2547.	3.0	7
97	Collecting up to 115% of Singlet-Fission Products by Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2020, 14, 8875-8886.	7.3	7
98	Panchromatic light funneling through the synergy in hexabenzocoronene-(metallo)porphyrin-fullerene assemblies to realize the separation of charges. <i>Chemical Science</i> , 2020, 11, 7123-7132.	3.7	9
99	Computational Study on O-O Bond Formation on a Mononuclear Non-Heme Iron Center. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2573-2581.	1.0	2
100	Recent advances in conjugated microporous polymers for photocatalysis: designs, applications, and prospects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6434-6470.	5.2	140
101	Understanding and Controlling Short- and Long-Range Electron/Charge-Transfer Processes in Electron Donor-Acceptor Conjugates. <i>Journal of the American Chemical Society</i> , 2020, 142, 7898-7911.	6.6	39
102	Organic linkage controls the photophysical properties of covalent photosensitizer-polyoxometalate hydrogen evolution dyads. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4688-4693.	2.5	5
103	Bioinspired artificial photosynthesis systems. <i>Tetrahedron</i> , 2020, 76, 131024.	1.0	21
104	Control of Energy Transfer Between Pyrene and Perylene Nucleosides by the Sequence of DNA-Templated Supramolecular Assemblies. <i>ChemistryOpen</i> , 2020, 9, 389-392.	0.9	9
105	Stereoselective synthesis of amino-substituted cyclopentafullerenes promoted by magnesium perchlorate/ferric perchlorate. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 964-974.	1.5	7
106	Effects of a Central Atom and Peripheral Substituents on Photoinduced Electron Transfer in the Phthalocyanine-Fullerene Donor-Acceptor Solution-Processable Dyads. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4010-4023.	1.5	27
107	Discovery of a Fullerene-Polyoxometalate Hybrid Exhibiting Enhanced Photocurrent Response. <i>Inorganic Chemistry</i> , 2020, 59, 5266-5270.	1.9	8
108	Yield—not only Lifetime—of the Photoinduced Charge-Separated State in Iridium Complex-Polyoxometalate Dyads Impact Their Hydrogen Evolution Reactivity. <i>Chemistry - A European Journal</i> , 2020, 26, 8045-8052.	1.7	20
109	Fullerenes as Key Components for Low-Dimensional (Photo)electrocatalytic Nanohybrid Materials. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 122-141.	7.2	64

#	ARTICLE	IF	CITATIONS
110	Photon and Charge Management in Advanced Energy Materials: Combining 0D, 1D, and 2D Nanocarbons as well as Bulk Semiconductors with Organic Chromophores. <i>Advanced Energy Materials</i> , 2021, 11, 2002831.	10.2	12
111	Fullerenes as Key Components for Low-Dimensional (Photo)electrocatalytic Nanohybrid Materials. <i>Angewandte Chemie</i> , 2021, 133, 124-143.	1.6	11
112	Recent Developments in the Use of Heterogeneous Semiconductor Photocatalyst Based Materials for a Visible-Light-Induced Water-Splitting System—A Brief Review. <i>Catalysts</i> , 2021, 11, 160.	1.6	34
113	Metallofullerene photoswitches driven by photoinduced fullerene-to-metal electron transfer. <i>Chemical Science</i> , 2021, 12, 7818-7838.	3.7	7
114	Engineering 2D Photocatalysts toward Carbon Dioxide Reduction. <i>Advanced Energy Materials</i> , 2021, 11, 2003159.	10.2	130
115	Photoinduced Electron Transfer in a Self-Assembled Bis(β -cyclodextrin)-Linked Pyrene/Bis(adamantane)-Linked Methyl Viologen Donor–Acceptor System in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4428-4437.	1.2	5
116	Synthesis and photoinduced charge stabilization in molecular tetrads featuring covalently linked triphenylamine-oligothiophene-BODIPY-C60. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	0.7	3
117	Fullerotetrahydroquinolines: TfOH/TsOH-Mediated One-Pot Two-Step Synthesis and N-Alkylation/Acylation/Carboamidation Reaction. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 4399-4421.	2.1	6
118	Robust fluorogenic non-porphyrin interaction of Zn(II) and Hg(II) naphthadiazacrown macrocyclic complexes with C60: Spectroscopic and dispersion-corrected DFT study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 418, 113414.	2.0	4
119	Unexpected Formation of Metallofulleroids from Multicomponent Reactions, with Crystallographic and Computational Studies of the Cluster Motion. <i>Angewandte Chemie</i> , 2021, 133, 25473-25477.	1.6	5
120	Unexpected Formation of Metallofulleroids from Multicomponent Reactions, with Crystallographic and Computational Studies of the Cluster Motion. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25269-25273.	7.2	12
121	Molecular selectivity of indenopyridines for fullerenes: A comparative study. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100145.	1.3	0
122	Merging Carbon Nanostructures with Porphyrins. , 2021, , 1-46.		1
123	Charge Transfer and Spin Dynamics in a Zinc Porphyrin Donor Covalently Linked to One or Two Naphthalenediimide Acceptors. <i>Journal of Physical Chemistry A</i> , 2021, 125, 825-834.	1.1	6
124	Evaluation of charge-transfer rates in fullerene-based donor–acceptor dyads with different density functional approximations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5376-5384.	1.3	18
125	Supramolecular Purification and Regioselective Functionalization of Fullerenes and Endohedral Metallofullerenes. <i>CheM</i> , 2020, 6, 3219-3262.	5.8	38
126	Self-assembled cobalt(β -porphyrin)–fulleropyrrolidine triads via axial coordination with photoinduced electron transfer. <i>New Journal of Chemistry</i> , 2018, 42, 12449-12456.	1.4	31
127	Modulating the dynamics of Förster resonance energy transfer and singlet fission by variable molecular spacers. <i>Nanoscale</i> , 2020, 12, 23061-23068.	2.8	9

#	ARTICLE	IF	CITATIONS
128	Multicomponent Reactions Among Alkyl Isocyanides, sp Reactants, and sp ² Carbon Cages. <i>Synlett</i> , 2022, 33, 907-912.	1.0	5
129	On the Endocircular Li@C ₁₆ System. <i>Frontiers in Chemistry</i> , 2022, 10, 813563.	1.8	0
130	Regioisomer-Directed Self-Assembly of Alternating Copolymers for Highly Enhanced Photocatalytic H ₂ Evolution. <i>ACS Macro Letters</i> , 2022, 11, 434-440.	2.3	4
131	Supramolecular Engineering of Crystalline Fullerene Micro/Nano Architectures. <i>Advanced Materials</i> , 2022, 34, e2200189.	11.1	20
132	Merging Carbon Nanostructures with Porphyrins. , 2022, , 219-264.		0
133	Molecular-Modified Photocathodes for Applications in Artificial Photosynthesis and Solar-to-Fuel Technologies. <i>Chemical Reviews</i> , 2022, 122, 16051-16109.	23.0	32
134	The Fundamentals of Organic Photophysics and Photochemistry. , 2022, , 31-63.		0
135	Ultrafast time-resolved spectroscopy elucidating photo-driven electron and energy transfer processes in a broadband light-absorbing BODIPY-C ₆₀ -distyryl BODIPY triad. <i>European Physical Journal: Special Topics</i> , 2023, 232, 2131-2144.	1.2	2
136	Organic-Inorganic Porphyrinoid Frameworks for Biomolecule Sensing. <i>ACS Sensors</i> , 2023, 8, 443-464.	4.0	1
137	Metal Atoms (Li, Na, and K) Tuning the Configuration of Pyrrole for the Selective Recognition of C ₆₀ . <i>Inorganic Chemistry</i> , 2023, 62, 4618-4624.	1.9	2
138	Efficient Charge-Transfer Studies for Selective Detection of Bilirubin Biomolecules Using CsPbBr ₃ as the Fluorescent Probe. <i>Journal of Physical Chemistry B</i> , 2023, 127, 2138-2145.	1.2	3
139	Revisiting the Mechanisms of Charge Transport in Solutions of Redox-Active Molecules Using Computer Simulations: When and Why Do Analytical Theories Fail?. <i>Journal of Physical Chemistry B</i> , 2023, 127, 2968-2978.	1.2	3
140	Interfullerene Electronic Interactions and Excited-State Dynamics in Fullerene Dumbbell Conjugates. <i>Journal of the American Chemical Society</i> , 2023, 145, 14190-14195.	6.6	2