

# Silvio Osella

## List of Publications by Year in descending order

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68  
papers

1,926  
citations

257357

24  
h-index

265120

42  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3017  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exhibiting environment sensitive optical properties through multiscale modelling: A study of photoactivatable probes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 425, 113672.	2.0	2
2	The Interplay of Conjugation and Metal Coordination in Tuning the Electron Transfer Abilities of NTA-Graphene Based Interfaces. <i>International Journal of Molecular Sciences</i> , 2022, 23, 543.	1.8	1
3	Electrochemical Deposition of a Single-Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
4	Electrochemical Deposition of a Single-Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	14
5	Nonplanar Rhombus and Kagome 2D Covalent Organic Frameworks from Distorted Aromatics for Electrical Conduction. <i>Journal of the American Chemical Society</i> , 2022, 144, 5042-5050.	6.6	54
6	Deciphering Photoinduced Charge Transfer Dynamics in a Cross-Linked Graphene-Dye Nanohybrid. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3569-3581.	1.5	0
7	Solution Synthesis and Characterization of a Long and Curved Graphene Nanoribbon with Hybrid Cove-Edge "Armchair" Gulf Edge Structures. <i>Advanced Science</i> , 2022, 9, e2200708.	5.6	12
8	Performance of electrochemical immunoassays for clinical diagnostics of SARS-CoV-2 based on selective nucleocapsid N protein detection: Boron-doped diamond, gold and glassy carbon evaluation. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114222.	5.3	23
9	Cove-Edged Graphene Nanoribbons with Incorporation of Periodic Zigzag-Edge Segments. <i>Journal of the American Chemical Society</i> , 2022, 144, 228-235.	6.6	28
10	Design Principles and Insights into the Liquid-Phase Exfoliation of Alpha-MoO <sub>3</sub> for the Production of Colloidal 2D Nano-inks in Green Solvents. <i>Journal of Physical Chemistry C</i> , 2022, 126, 404-415.	1.5	2
11	Diazonium-Based Covalent Molecular Wiring of Single-Layer Graphene Leads to Enhanced Unidirectional Photocurrent Generation through the p-doping Effect. <i>Chemistry of Materials</i> , 2022, 34, 3744-3758.	3.2	2
12	The influence of lipid membranes on fluorescent probes' optical properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183494.	1.4	11
13	Synthesis of Nonplanar Graphene Nanoribbon with Fjord Edges. <i>Journal of the American Chemical Society</i> , 2021, 143, 5654-5658.	6.6	52
14	Challenges for Incorporating Optical Switchability in Organic-Based Electronic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 27737-27748.	4.0	17
15	Enhancement of direct electron transfer in graphene bioelectrodes containing novel cytochrome c variants with optimized heme orientation. <i>Bioelectrochemistry</i> , 2021, 140, 107818.	2.4	7
16	Development of a universal conductive platform for anchoring photo- and electroactive proteins using organometallic terpyridine molecular wires. <i>Nanoscale</i> , 2021, 13, 9773-9787.	2.8	7
17	Molecular mechanism of direct electron transfer in the robust cytochrome-functionalised graphene nanosystem. <i>RSC Advances</i> , 2021, 11, 18860-18869.	1.7	3
18	Artificial Photosynthesis: Is Computation Ready for the Challenge Ahead?. <i>Nanomaterials</i> , 2021, 11, 299.	1.9	3

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19	(INVITED) Lighting-up nanocarbons through hybridization: Optoelectronic properties and perspectives. <i>Optical Materials: X</i> , 2021, 12, 100100.	0.3	5
20	Molecular Modeling of Mechanisms of Decomposition of Ruthenium Metathesis Catalysts by Acrylonitrile. <i>Organometallics</i> , 2020, 39, 239-246.	1.1	15
21	Disentangling the role of solvent polarity and protein solvation in folding and self-assembly of $\beta$ -lactalbumin. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 749-761.	5.0	12
22	A Curved Graphene Nanoribbon with Multi-Edge Structure and High Intrinsic Charge Carrier Mobility. <i>Journal of the American Chemical Society</i> , 2020, 142, 18293-18298.	6.6	50
23	Experimental Observation of Strong Exciton Effects in Graphene Nanoribbons. <i>Nano Letters</i> , 2020, 20, 2993-3002.	4.5	52
24	Push/Pull Effect as Driving Force for Different Optical Responses of Azobenzene in a Biological Environment. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8310-8322.	1.5	11
25	Architecture and Function of Biohybrid Solar Cell and Solar-to-Fuel Nanodevices. <i>Springer Series in Materials Science</i> , 2020, , 227-274.	0.4	2
26	Hybrid nanomaterials for artificial photosynthesis. , 2020, , .		0
27	Influence of Membrane Phase on the Optical Properties of DPH. <i>Molecules</i> , 2020, 25, 4264.	1.7	4
28	Conformational Changes as Driving Force for Phase Recognition: The Case of Laurdan. <i>Langmuir</i> , 2019, 35, 11471-11481.	1.6	21
29	Evidence for Strong and Weak Phenyl-C <sub>61</sub> -Butyric Acid Methyl Ester Photodimer Populations in Organic Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 6076-6083.	3.2	11
30	Role of Metal Centers in Tuning the Electronic Properties of Graphene-Based Conductive Interfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8623-8632.	1.5	11
31	Modelling Coupled Ion Motion in Electrolyte Solutions for Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 473-481.	2.4	9
32	Laurdan as a Molecular Rotor in Biological Environments. <i>ACS Applied Bio Materials</i> , 2019, 2, 5769-5778.	2.3	10
33	Environmental effects on the charge transfer properties of Graphene quantum dot based interfaces. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25882.	1.0	8
34	Azoliniums, Adducts, NHCs and Azomethine Ylides: Divergence in Wanzlick Equilibrium and Olefin Metathesis Catalyst Formation. <i>Chemistry - A European Journal</i> , 2018, 24, 4785-4789.	1.7	16
35	Energy Level Alignment at Interfaces Between Au (111) and Thiolated Oligophenylenes of Increasing Chain Size: Theoretical Evidence of Pinning Effects. <i>Advanced Theory and Simulations</i> , 2018, 1, 1700020.	1.3	13
36	Controlling the charge transfer flow at the graphene/pyrene-nitrilotriacetic acid interface. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5046-5054.	2.7	18

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37	Assessing the Charge Transfer at the Cytochrome <i>c</i> <sub>553</sub> /Graphene Interface: A Multiscale Investigation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29405-29413.	1.5	9
38	Combining (Non)linear Optical and Fluorescence Analysis of DiD To Enhance Lipid Phase Recognition. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 5350-5359.	2.3	11
39	Atomistic Picture of Fluorescent Probes with Hydrocarbon Tails in Lipid Bilayer Membranes: An Investigation of Selective Affinities and Fluorescent Anisotropies in Different Environmental Phases. <i>Langmuir</i> , 2018, 34, 9072-9084.	1.6	15
40	Triggering On/Off States of Photoswitchable Probes in Biological Environments. <i>Journal of the American Chemical Society</i> , 2017, 139, 4418-4428.	6.6	20
41	Role of Edge Engineering in Photoconductivity of Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2017, 139, 7982-7988.	6.6	64
42	Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2- <i>b</i> ][1]benzothiophene. <i>Advanced Materials</i> , 2016, 28, 7106-7114.	11.1	138
43	Charge Carrier Mobility: Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2- <i>b</i> ][1]benzothiophene (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	11.1	138
44	Investigation into Biological Environments through (Non)linear Optics: A Multiscale Study of Laurdan Derivatives. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 6169-6181.	2.3	25
45	Light-enhanced liquid-phase exfoliation and current photoswitching in graphene-azobenzene composites. <i>Nature Communications</i> , 2016, 7, 11090.	5.8	97
46	Fused Dibenzo[ <i>a</i> , <i>m</i> ]rubicene: A New Bowl-Shaped Subunit of C <sub>70</sub> Containing Two Pentagons. <i>Journal of the American Chemical Society</i> , 2016, 138, 8364-8367.	6.6	66
47	Tuning nitrogen species to control the charge carrier concentration in highly doped graphene. <i>2D Materials</i> , 2016, 3, 011001.	2.0	27
48	Unexpected Scholl Reaction of 6,7,13,14-Tetraarylbenzo[ <i>k</i> ]tetraphene: Selective Formation of Five-Membered Rings in Polycyclic Aromatic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2016, 138, 2602-2608.	6.6	103
49	Combined Molecular Dynamics and Density Functional Theory Study of Azobenzene-Graphene Interfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6651-6658.	1.5	16
50	Influence of the supramolecular order on the electrical properties of 1D coordination polymers based materials. <i>Nanoscale</i> , 2016, 8, 2386-2394.	2.8	8
51	Bottom-Up Synthesis of Necklace-Like Graphene Nanoribbons. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2134-2138.	1.7	43
52	Sulfur-Annulated Hexaperi-hexabenzocoronene Decorated with Phenylthio Groups at the Periphery. <i>Angewandte Chemie</i> , 2015, 127, 2970-2974.	1.6	9
53	Geometric and Electronic Structures of Boron(III)-Cored Dyes Tailored by Incorporation of Heteroatoms into Ligands. <i>Chemistry - an Asian Journal</i> , 2015, 10, 709-714.	1.7	14
54	Sulfur-Annulated Hexaperi-hexabenzocoronene Decorated with Phenylthio Groups at the Periphery. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2927-2931.	7.2	36

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55	First Principles Calculations of Charge Transfer Excitations in Polymer–Fullerene Complexes: Influence of Excess Energy. <i>Advanced Functional Materials</i> , 2015, 25, 1972-1984.	7.8	59
56	Perylene Derivatives As Useful SERRS Reporters, Including Multiplexing Analysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 28042-28048.	4.0	14
57	Solvent-trap reaction of triazolinediones with simple alkenes: an experimental/theoretical study of thermodynamic and kinetic parameters. <i>Tetrahedron</i> , 2015, 71, 9474-9482.	1.0	2
58	π-extended [12]cycloparaphenylenes: from a hexaphenylbenzene cyclohexamer to its unexpected C <sub>2</sub> -symmetric congener. <i>Chemical Science</i> , 2015, 6, 7072-7078.	3.7	32
59	Work function modification of the (111) gold surface covered by long alkanethiol-based self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2866.	1.3	26
60	Light-induced reversible modification of the work function of a new perfluorinated biphenyl azobenzene chemisorbed on Au (111). <i>Nanoscale</i> , 2014, 6, 8969-8977.	2.8	31
61	Coherent Electron Transmission across Nanographenes Tethered to Gold Electrodes: Influence of Linker Topology, Ribbon Width, and Length. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7643-7652.	1.5	4
62	Photoswitching Azobenzene Derivatives in Single Molecule Junctions: A Theoretical Insight into the <i>I</i> / <i>V</i> Characteristics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18721-18729.	1.5	32
63	Large Work Function Shift of Gold Induced by a Novel Perfluorinated Azobenzene-Based Self-Assembled Monolayer. <i>Advanced Materials</i> , 2013, 25, 432-436.	11.1	93
64	Polymorphism, Fluorescence, and Optoelectronic Properties of a Borazine Derivative. <i>Chemistry - A European Journal</i> , 2013, 19, 7771-7779.	1.7	49
65	Atomically precise edge chlorination of nanographenes and its application in graphene nanoribbons. <i>Nature Communications</i> , 2013, 4, 2646.	5.8	187
66	Graphene Nanoribbons as Low Band Gap Donor Materials for Organic Photovoltaics: Quantum Chemical Aided Design. <i>ACS Nano</i> , 2012, 6, 5539-5548.	7.3	99
67	Photoinduced work function changes by isomerization of a densely packed azobenzene-based SAM on Au: a joint experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14302.	1.3	61
68	The Mechanism of the Acid-Catalyzed Benzidine Rearrangement of Hydrazobenzene: A Theoretical Study. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 2326-2333.	1.2	27