Paolo SamorÃ¬

List of Publications by Year
in descending order

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384	22,741	6592	12558
papers	citations	79 h-index	132 g-index

413	413	413	25701
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grapheneviasonication assisted liquid-phase exfoliation. Chemical Society Reviews, 2014, 43, 381-398.	18.7	976
2	Chemical sensing with 2D materials. Chemical Society Reviews, 2018, 47, 4860-4908.	18.7	513
3	Cyclodextrin-threaded conjugated polyrotaxanes as insulated molecular wires with reduced interstrand interactions. Nature Materials, 2002, 1, 160-164.	13.3	471
4	2D Materials Beyond Graphene for Highâ€Performance Energy Storage Applications. Advanced Energy Materials, 2016, 6, 1600671.	10.2	436
5	Charge transport and mobility engineering in two-dimensional transition metal chalcogenide semiconductors. Chemical Society Reviews, 2016, 45, 118-151.	18.7	423
6	Adsorption of Aromatic and Anti-Aromatic Systems on Graphene through Ï€â^'Ï€ Stacking. Journal of Physical Chemistry Letters, 2010, 1, 3407-3412.	2.1	344
7	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	2.0	333
8	Flexible non-volatile optical memory thin-film transistor device with over 256 distinct levels based on an organic bicomponent blend. Nature Nanotechnology, 2016, 11, 769-775.	15.6	300
9	Organic Radical-Assisted Electrochemical Exfoliation for the Scalable Production of High-Quality Graphene. Journal of the American Chemical Society, 2015, 137, 13927-13932.	6.6	288
10	High-Contrast Visualization of Graphene Oxide on Dye-Sensitized Glass, Quartz, and Silicon by Fluorescence Quenching. Journal of the American Chemical Society, 2009, 131, 15576-15577.	6.6	280
11	Lightâ€Powered Electrical Switch Based on Cargoâ€Lifting Azobenzene Monolayers. Angewandte Chemie - International Edition, 2008, 47, 3407-3409.	7.2	276
12	Towards Supramolecular Engineering of Functional Nanomaterials: Preâ€Programming Multiâ€Component 2D Selfâ€Assembly at Solidâ€Liquid Interfaces. Advanced Materials, 2010, 22, 3506-3520.	11.1	276
13	Cooperative light-induced molecular movements of highly ordered azobenzene self-assembled monolayers. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9937-9942.	3.3	273
14	25th Anniversary Article: Organic Electronics Marries Photochromism: Generation of Multifunctional Interfaces, Materials, and Devices. Advanced Materials, 2014, 26, 1827-1845.	11.1	259
15	Azobenzenes as Light-Controlled Molecular Electronic Switches in Nanoscale Metalâ^'Moleculeâ^'Metal Junctions. Journal of the American Chemical Society, 2008, 130, 9192-9193.	6.6	257
16	Coherent Coupling of WS₂ Monolayers with Metallic Photonic Nanostructures at Room Temperature. Nano Letters, 2016, 16, 4368-4374.	4.5	256
17	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. Journal of Physical Chemistry Letters, 2016, 7, 561-566.	2.1	234
18	Nonvolatile Memories Based on Graphene and Related 2D Materials. Advanced Materials, 2019, 31, e1806663.	11.1	230

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19	Optically switchable transistor via energy-level phototuning in a bicomponent organic semiconductor. Nature Chemistry, 2012, 4, 675-679.	6.6	217
20	Coupling carbon nanomaterials with photochromic molecules for the generation of optically responsive materials. Nature Communications, 2016, 7, 11118.	5.8	217
21	Dispersibilityâ€Dependent Biodegradation of Graphene Oxide by Myeloperoxidase. Small, 2015, 11, 3985-3994.	5.2	215
22	Molecular chemistry approaches for tuning the properties of two-dimensional transition metal dichalcogenides. Chemical Society Reviews, 2018, 47, 6845-6888.	18.7	202
23	When 2D Materials Meet Molecules: Opportunities and Challenges of Hybrid Organic/Inorganic van der Waals Heterostructures. Advanced Materials, 2018, 30, e1706103.	11.1	194
24	Self-Assembly of a Conjugated Polymer: From Molecular Rods to a Nanoribbon Architecture with Molecular Dimensions. Chemistry - A European Journal, 1999, 5, 2312-2317.	1.7	191
25	Molecular Self-Assembly across Multiple Length Scales. Angewandte Chemie - International Edition, 2007, 46, 4428-4432.	7.2	181
26	Predicting self-assembly: from empirism to determinism. Chemical Society Reviews, 2012, 41, 3713.	18.7	179
27	Tuning the Workâ€Function Via Strong Coupling. Advanced Materials, 2013, 25, 2481-2485.	11.1	177
28	Processing of giant graphene molecules by soft-landing mass spectrometry. Nature Materials, 2006, 5, 276-280.	13.3	172
29	Nanoscale Quantitative Measurement of the Potential of Charged Nanostructures by Electrostatic and Kelvin Probe Force Microscopy: Unraveling Electronic Processes in Complex Materials. Accounts of Chemical Research, 2010, 43, 541-550.	7.6	167
30	Engineering Chemically Active Defects in Monolayer MoS₂ Transistors via Ionâ€Beam Irradiation and Their Healing via Vapor Deposition of Alkanethiols. Advanced Materials, 2017, 29, 1606760.	11.1	165
31	Optically switchable transistors by simple incorporation of photochromic systems into small-molecule semiconducting matrices. Nature Communications, 2015, 6, 6330.	5.8	162
32	Moleculeâ€“Graphene Hybrid Materials with Tunable Mechanoresponse: Highly Sensitive Pressure Sensors for Health Monitoring. Advanced Materials, 2019, 31, e1804600.	11.1	159
33	Epitaxial Composite Layers of Electron Donors and Acceptors from Very Large Polycyclic Aromatic Hydrocarbons. Journal of the American Chemical Society, 2002, 124, 9454-9457.	6.6	158
34	Blueprinting macromolecular electronics. Nature Chemistry, 2011, 3, 431-436.	6.6	158
35	Dynamers at the Solidâ€“Liquid Interface: Controlling the Reversible Assembly/Reassembly Process between Two Highly Ordered Supramolecular Guanine Motifs. Angewandte Chemie - International Edition, 2010, 49, 1963-1966.	7.2	156
36	Supramolecular Approaches to Graphene: From Selfâ€Assembly to Moleculeâ€Assisted Liquidâ€Phase Exfoliation. Advanced Materials, 2016, 28, 6030-6051.	11.1	154

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37	Concentration-Dependent Supramolecular Engineering of Hydrogen-Bonded Nanostructures at Surfaces: Predicting Self-Assembly in 2D. Journal of the American Chemical Society, 2013, 135, 6942-6950.	6.6	153
38	Tuning the energetics and tailoring the optical properties of silver clusters confined in zeolites. Nature Materials, 2016, 15, 1017-1022.	13.3	153
39	The Self-Assembly of Lipophilic Guanosine Derivatives in Solution and on Solid Surfaces. Chemistry - A European Journal, 2000, 6, 3242-3248.	1.7	151
40	Local Current Mapping and Patterning of Reduced Graphene Oxide. Journal of the American Chemical Society, 2010, 132, 14130-14136.	6.6	140
41	Optical Modulation of the Charge Injection in an Organic Fieldâ€Effect Transistor Based on Photochromic Selfâ€Assembledâ€Monolayerâ€Functionalized Electrodes. Advanced Materials, 2011, 23, 1447-1452.	11.1	140
42	Optically switchable organic light-emitting transistors. Nature Nanotechnology, 2019, 14, 347-353.	15.6	139
43	Selfâ€Assembly of a Donorâ€Acceptor Dyad Across Multiple Length Scales: Functional Architectures for Organic Electronics. Advanced Functional Materials, 2009, 19, 2486-2494.	7.8	138
44	Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2â€b][1]benzothiophene. Advanced Materials, 2016, 28, 7106-7114.	11.1	138
45	Tailoring Bicomponent Supramolecular Nanoporous Networks: Phase Segregation, Polymorphism, and Glasses at the Solidâ^Liquid Interface. Journal of the American Chemical Society, 2009, 131, 13062-13071.	6.6	134
46	Ultrafast Delamination of Graphite into Highâ€Quality Graphene Using Alternating Currents. Angewandte Chemie - International Edition, 2017, 56, 6669-6675.	7.2	134
47	Synthesis of Robust MOFs@COFs Porous Hybrid Materials via an Azaâ€Dielsâ€“Alder Reaction: Towards Highâ€Performance Supercapacitor Materials. Angewandte Chemie - International Edition, 2020, 59, 19602-19609.	7.2	133
48	Electrochemical Functionalization of Graphene at the Nanoscale with Self-Assembling Diazonium Salts. ACS Nano, 2016, 10, 7125-7134.	7.3	132
49	Charge transport in grapheneâ€“polythiophene blends as studied by Kelvin Probe Force Microscopy and transistor characterization. Journal of Materials Chemistry, 2011, 21, 2924.	6.7	127
50	Reversible, Fast, and Wideâ€Range Oxygen Sensor Based on Nanostructured Organometal Halide Perovskite. Advanced Materials, 2017, 29, 1702469.	11.1	127
51	Dynamic covalent chemistry of bisimines at the solid/liquid interface monitored by scanning tunnelling microscopy. Nature Chemistry, 2014, 6, 1017-1023.	6.6	124
52	Supramolecular Helices via Self-Assembly of 8-Oxoguanosines. Journal of the American Chemical Society, 2003, 125, 14741-14749.	6.6	123
53	Photovoltaic Charge Generation Visualized at the Nanoscale:Â A Proof of Principle. Journal of the American Chemical Society, 2008, 130, 780-781.	6.6	120
54	Nanoscale insight into the exfoliation mechanism of graphene with organic dyes: effect of charge, dipole and molecular structure. Nanoscale, 2013, 5, 4205.	2.8	116

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55	Scanning probe microscopies beyond imaging. Journal of Materials Chemistry, 2004, 14, 1353-1366.	6.7	114
56	Self-Assembly of Electron Donorâ^'Acceptor Dyads into Ordered Architectures in Two and Three Dimensions:Â Surface Patterning and Columnar â€œDouble Cablesâ€. Journal of the American Chemical Society, 2004, 126, 3567-3575.	6.6	111
57	The Self-Assembly of Lipophilic Guanosine Derivatives in Solution and on Solid Surfaces. Chemistry - A European Journal, 2000, 6, 3242-3248.	1.7	111
58	Molecular Tectonics on Surfaces: Bottom-Up Fabrication of 1D Coordination Networks That Form 1D and 2D Arrays on Graphite. Angewandte Chemie - International Edition, 2007, 46, 245-249.	7.2	110
59	Engineering of Supramolecular H-Bonded Nanopolygons via Self-Assembly of Programmed Molecular Modules. Journal of the American Chemical Society, 2009, 131, 509-520.	6.6	105
60	Chemical Conversion and Locking of the Imine Linkage: Enhancing the Functionality of Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2021, 60, 14236-14250.	7.2	105
61	High Shape Persistence in Single Polymer Chains Rigidified with Lateral Hydrogen Bonded Networks. Macromolecules, 2002, 35, 5290-5294.	2.2	104
62	Shape-Persistant Macrocycles with Terpyridine Units:Â Synthesis, Characterization, and Structure in the Crystal. Journal of the American Chemical Society, 2003, 125, 6907-6918.	6.6	102
63	Supramolecular Staircase via Self-Assembly of Disklike Molecules at the Solidâ^'Liquid Interface. Journal of the American Chemical Society, 2001, 123, 11462-11467.	6.6	101
64	Light-enhanced liquid-phase exfoliation and current photoswitching in grapheneâ€“azobenzene composites. Nature Communications, 2016, 7, 11090.	5.8	97
65	Tuning the Photoresponse in Organic Field-Effect Transistors. Journal of the American Chemical Society, 2012, 134, 2429-2433.	6.6	96
66	Extended triphenylenes: synthesis, mesomorphic properties and molecularly resolved scanning tunneling microscopy images of hexakis(dialkoxyphenyl)triphenylenes and dodeca(alkoxy)tris(triphenylenylene)s. Journal of Materials Chemistry, 2000, 10, 1519-1525.	6.7	94
67	Large Work Function Shift of Gold Induced by a Novel Perfluorinated Azobenzeneâ€Based Selfâ€Assembled Monolayer. Advanced Materials, 2013, 25, 432-436.	11.1	93
68	Harnessing the Liquidâ€Phase Exfoliation of Graphene Using Aliphatic Compounds: A Supramolecular Approach. Angewandte Chemie - International Edition, 2014, 53, 10355-10361.	7.2	92
69	Organic photodetectors based on supramolecular nanostructures. SmartMat, 2020, 1, .	6.4	91
70	Guanosineâ€based Hydrogenâ€bonded Scaffolds: Controlling the Assembly of Oligothiophenes. Advanced Materials, 2008, 20, 2433-2438.	11.1	90
71	Ordered Architectures of a Soluble Hexa-peri-hexabenzocoroneneâ^'Pyrene Dyad:â€‰ Thermotropic Bulk Properties and Nanoscale Phase Segregation at Surfaces. Journal of the American Chemical Society, 2003, 125, 9734-9739.	6.6	89
72	A Supramolecular Strategy to Leverage the Liquidâ€Phase Exfoliation of Graphene in the Presence of Surfactants: Unraveling the Role of the Length of Fatty Acids. Small, 2015, 11, 1691-1702.	5.2	87

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73	Self-Assembly and Manipulation of Crown Ether Phthalocyanines at the Gelâ€“Graphite Interface. Angewandte Chemie - International Edition, 2001, 40, 2348-2350.	7.2	85
74	The Relationship between Nanoscale Architecture and Function in Photovoltaic Multichromophoric Arrays as Visualized by Kelvin Probe Force Microscopy. Journal of the American Chemical Society, 2008, 130, 14605-14614.	6.6	85
75	Graphene nanoribbon blends with P3HT for organic electronics. Nanoscale, 2014, 6, 6301-6314.	2.8	85
76	Chemical sensing with Au and Ag nanoparticles. Chemical Society Reviews, 2021, 50, 1269-1304.	18.7	85
77	Graphene oxide-branched polyethylenimine foams for efficient removal of toxic cations from water. Journal of Materials Chemistry A, 2018, 6, 9384-9390.	5.2	84
78	Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. Journal of Materials Chemistry, 2010, 20, 9052.	6.7	82
79	Dynamic Materials through Metal-Directed and Solvent-Driven Self-Assembly of Cavitands. Angewandte Chemie - International Edition, 2003, 42, 1384-1387.	7.2	81
80	Nonâ€conventional Processing and Postâ€processing Methods for the Nanostructuring of Conjugated Materials for Organic Electronics. Advanced Functional Materials, 2011, 21, 1279-1295.	7.8	81
81	Exploring supramolecular interactions and architectures by scanning force microscopies. Chemical Society Reviews, 2005, 34, 551.	18.7	80
82	Multicomponent Monolayer Architectures at the Solidâ€“Liquid Interface: Towards Controlled Space-Confined Properties and Reactivity of Functional Building Blocks. Small, 2007, 3, 190-194.	5.2	80
83	Enhancing the Liquid-Phase Exfoliation of Graphene in Organic Solvents upon Addition of n-Octylbenzene. Scientific Reports, 2015, 5, 16684.	1.6	79
84	Single Component Selfâ€Assembled Monolayers of Aromatic Azoâ€Biphenyl: Influence of the Packing Tightness on the SAM Structure and Lightâ€Induced Molecular Movements. Advanced Functional Materials, 2008, 18, 2972-2983.	7.8	78
85	Atomistic Simulations of 2D Bicomponent Self-Assembly: From Molecular Recognition to Self-Healing. Journal of the American Chemical Society, 2010, 132, 17880-17885.	6.6	76
86	Selfâ€Assembly of an Amphiphilic Ï€â€Conjugated Dyad into Fibers: Ultrafast and Ultrasensitive Humidity Sensor. Advanced Materials, 2015, 27, 3170-3174.	11.1	75
87	Hybrid Copperâ€Nanowireâ€“Reducedâ€Grapheneâ€Oxide Coatings: A â€œGreen Solutionâ€•Toward Highly Transparent, Highly Conductive, and Flexible Electrodes for (Opto)Electronics. Advanced Materials, 2017, 29, 1703225.	11.1	74
88	Covalently interconnected transition metal dichalcogenide networks via defect engineering for high-performance electronic devices. Nature Nanotechnology, 2021, 16, 592-598.	15.6	74
89	Liquid-Phase Exfoliation of Graphite into Single- and Few-Layer Graphene with Î±-Functionalized Alkanes. Journal of Physical Chemistry Letters, 2016, 7, 2714-2721.	2.1	73
90	Highâ€Performance Grapheneâ€Based Cementitious Composites. Advanced Science, 2019, 6, 1801195.	5.6	73

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91	A nanomesh scaffold for supramolecular nanowire optoelectronic devices. Nature Nanotechnology, 2016, 11, 900-906.	15.6	72
92	Production and Patterning of Liquid Phaseâ€“Exfoliated 2D Sheets for Applications in Optoelectronics. Advanced Functional Materials, 2019, 29, 1901126.	7.8	71
93	Nitrogen-Doped Carbon Dots/TiO₂ Nanoparticle Composites for Photoelectrochemical Water Oxidation. ACS Applied Nano Materials, 2020, 3, 3371-3381.	2.4	71
94	Electronic Transport Properties of Ensembles of Peryleneâ€Substituted Polyâ€isocyanopeptide Arrays. Advanced Functional Materials, 2008, 18, 3947-3955.	7.8	70
95	Photoswitching Vertically Oriented Azobenzene Selfâ€Assembled Monolayers at the Solidâ€“Liquid Interface. Chemistry - A European Journal, 2010, 16, 14256-14260.	1.7	70
96	Optically switchable organic field-effect transistors based on photoresponsive gold nanoparticles blended with poly(3-hexylthiophene). Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12375-12380.	3.3	70
97	Pre-programmed bicomponent porous networks at the solidâ€“liquid interface: the low concentration regime. Chemical Communications, 2008, , 5289.	2.2	69
98	Periodic potentials in hybrid van der Waals heterostructures formed by supramolecular lattices on graphene. Nature Communications, 2017, 8, 14767.	5.8	68
99	Direct Photolithography on Molecular Crystals for High Performance Organic Optoelectronic Devices. Journal of the American Chemical Society, 2018, 140, 6984-6990.	6.6	68
100	STM Insight into Hydrogenâ€Bonded Bicomponent 1â€‰D Supramolecular Polymers with Controlled Geometries at the Liquidâ€“Solid Interface. Angewandte Chemie - International Edition, 2009, 48, 2039-2043.	7.2	67
101	â€œHelterâ€Skelterâ€Likeâ€•Perylene Polyisocyanopeptides. Chemistry - A European Journal, 2009, 15, 2536-2547.	1.7	64
102	Solvent vapour annealing of organic thin films: controlling the self-assembly of functional systems across multiple length scales. Journal of Materials Chemistry, 2010, 20, 2493.	6.7	63
103	Tipâ^'Sample Interactions in Kelvin Probe Force Microscopy: Quantitative Measurement of the Local Surface Potential. Journal of Physical Chemistry C, 2008, 112, 17368-17377.	1.5	62
104	Modulating the charge injection in organic field-effect transistors: fluorinated oligophenyl self-assembled monolayers for high work function electrodes. Journal of Materials Chemistry C, 2015, 3, 3007-3015.	2.7	62
105	Graphene Oxide Hybrid with Sulfurâ€“Nitrogen Polymer for High-Performance Pseudocapacitors. Journal of the American Chemical Society, 2019, 141, 482-487.	6.6	61
106	Light-responsive reversible solvation and precipitation of gold nanoparticles. Chemical Communications, 2010, 46, 1147-1149.	2.2	60
107	Atomâ€Thick Membranes for Water Purification and Blue Energy Harvesting. Advanced Functional Materials, 2020, 30, 1902394.	7.8	58
108	Synthesis and Solid State Structures of Functionalized Phenyleneethynylene Trimers in 2D and 3D. Chemistry of Materials, 2003, 15, 1032-1039.	3.2	57

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109	Lightâ€Modulation of the Charge Injection in a Polymer Thinâ€Film Transistor by Functionalizing the Electrodes with Bistable Photochromic Selfâ€Assembled Monolayers. Advanced Materials, 2016, 28, 6606-6611.	11.1	57
110	Two-Dimensional Violet Phosphorus: A p-Type Semiconductor for (Opto)electronics. Journal of the American Chemical Society, 2022, 144, 3660-3666.	6.6	56
111	Graphene Transistors via in Situ Voltage-Induced Reduction of Graphene-Oxide under Ambient Conditions. Journal of the American Chemical Society, 2011, 133, 14320-14326.	6.6	55
112	Photoelectrochemical response of carbon dots (CDs) derived from chitosan and their use in electrochemical imaging. Materials Horizons, 2018, 5, 423-428.	6.4	55
113	Self-assembly of discotic molecules into mesoscopic crystals by solvent-vapour annealing. Soft Matter, 2008, 4, 2064.	1.2	54
114	Small Size, Big Impact: Recent Progress in Bottomâ€Up Synthesized Nanographenes for Optoelectronic and Energy Applications. Advanced Science, 2022, 9, e2106055.	5.6	54
115	Self-Assembly of an Alkylated Guanosine Derivative into Ordered Supramolecular Nanoribbons in Solution and on Solid Surfaces. Chemistry - A European Journal, 2007, 13, 3757-3764.	1.7	53
116	Modulating Largeâ€Area Selfâ€Assembly at the Solidâ€“Liquid Interface by pHâ€Mediated Conformational Switching. Chemistry - A European Journal, 2009, 15, 4788-4792.	1.7	53
117	Supramolecular assembly/reassembly processes: molecular motors and dynamers operating at surfaces. Nanoscale, 2011, 3, 1397.	2.8	53
118	Collective molecular switching in hybrid superlattices for light-modulated two-dimensional electronics. Nature Communications, 2018, 9, 2661.	5.8	53
119	The Relationship between Nanoscale Architecture and Charge Transport in Conjugated Nanocrystals Bridged by Multichromophoric Polymers. Journal of the American Chemical Society, 2009, 131, 7055-7063.	6.6	52
120	Doping of Monolayer Transition-Metal Dichalcogenides via Physisorption of Aromatic Solvent Molecules. Journal of Physical Chemistry Letters, 2019, 10, 540-547.	2.1	52
121	Multiresponsive Nonvolatile Memories Based on Optically Switchable Ferroelectric Organic Fieldâ€Effect Transistors. Advanced Materials, 2021, 33, e2007965.	11.1	52
122	Temperatureâ€Enhanced Solvent Vapor Annealing of a C₃ Symmetric Hexaâ€periâ€Hexabenzocoronene: Controlling the Selfâ€Assembly from Nanoâ€to Macroscale. Small, 2009, 5, 112-119.	5.2	51
123	Modifying the Size of Ultrasound-Induced Liquid-Phase Exfoliated Graphene: From Nanosheets to Nanodots. ACS Nano, 2016, 10, 10768-10777.	7.3	51
124	A Universal Approach toward Light-Responsive Two-Dimensional Electronics: Chemically Tailored Hybrid van der Waals Heterostructures. ACS Nano, 2019, 13, 4814-4825.	7.3	51
125	SFM Characterization of Poly(isocyanodipeptide) Single Polymer Chains in Controlled Environments:Â Effect of Tip Adhesion and Chain Swelling. Macromolecules, 2005, 38, 473-480.	2.2	49
126	Electronic characterization of supramolecular materials at the nanoscale by Conductive Atomic Force and Kelvin Probe Force microscopies. Materials Today, 2014, 17, 504-517.	8.3	49

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127	Surfaceâ€Induced Selection During Inâ€…Situ Photoswitching at the Solid/Liquid Interface. Angewandte Chemie - International Edition, 2015, 54, 4865-4869.	7.2	48
128	Selfâ€assembly of Natural and Unnatural Nucleobases at Surfaces and Interfaces. Small, 2016, 12, 83-95.	5.2	48
129	Photoinduced structural modifications in multicomponent architectures containing azobenzene moieties as photoswitchable cores. Journal of Materials Chemistry, 2009, 19, 4715.	6.7	47
130	Highly Sensitive Strain Sensors Based on Moleculesâ€“Gold Nanoparticles Networks for Highâ€Resolution Human Pulse Analysis. Small, 2021, 17, e2007593.	5.2	47
131	Self-templating 2D supramolecular networks: a new avenue to reach control over a bilayer formation. Nanoscale, 2011, 3, 4125.	2.8	46
132	Elucidating the nanoscale origins of organic electronic function by conductive atomic force microscopy. Journal of Materials Chemistry C, 2014, 2, 3118-3128.	2.7	46
133	Chemical Approaches to 2D Materials. Advanced Materials, 2016, 28, 6027-6029.	11.1	46
134	Molecular Approach to Engineer Two-Dimensional Devices for CMOS and beyond-CMOS Applications. Chemical Reviews, 2022, 122, 50-131.	23.0	46
135	Pyrazolino[60]fullerene-Oligophenylenevinylene Dumbbell-Shaped Arrays: Synthesis, Electrochemistry, Photophysics, and Self-Assembly on Surfaces. Chemistry - A European Journal, 2005, 11, 4405-4415.	1.7	45
136	Reversible Interconversion between a Supramolecular Polymer and a Discrete Octameric Species from a Guanosine Derivative by Dynamic Cation Binding and Release. Organic Letters, 2006, 8, 3125-3128.	2.4	45
137	Graphene/Polymer Nanocomposites for Supercapacitors. ChemNanoMat, 2017, 3, 362-372.	1.5	44
138	Functionalization of 2D Materials with Photosensitive Molecules: From Lightâ€Responsive Hybrid Systems to Multifunctional Devices. Advanced Optical Materials, 2019, 7, 1900286.	3.6	44
139	Functional polymers: scanning force microscopy insights. Physical Chemistry Chemical Physics, 2006, 8, 3927-3938.	1.3	43
140	Ultrathin Ï€-Conjugated Polymer Films for Simple Fabrication of Large-Area Molecular Junctions. ChemPhysChem, 2007, 8, 515-518.	1.0	43
141	A New Class of Rigid Multi(azobenzene) Switches Featuring Electronic Decoupling: Unravelling the Isomerization in Individual Photochromes. Journal of the American Chemical Society, 2019, 141, 9273-9283.	6.6	43
142	Grapheneâ€Based Cementitious Composites: Toward Nextâ€Generation Construction Technologies. Advanced Functional Materials, 2021, 31, 2101887.	7.8	43
143	Nanoribbons from conjugated macromolecules on amorphous substrates observed by SFM and TEM. Nanotechnology, 1999, 10, 77-80.	1.3	42
144	Exploring nanoscale electrical and electronic properties of organic and polymeric functional materials by atomic force microscopy based approaches. Chemical Communications, 2007, , 3326.	2.2	42

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145	Molecular Tectonics at the Solid/Liquid Interface: Controlling the Nanoscale Geometry, Directionality, and Packing of 1D Coordination Networks on Graphite Surfaces. Advanced Materials, 2009, 21, 1131-1136.	11.1	42
146	Self-assembly of diphenylalanine backbone homologues and their combination with functionalized carbon nanotubes. Nanoscale, 2015, 7, 15873-15879.	2.8	42
147	Unconventional Nanofabrication for Supramolecular Electronics. Advanced Materials, 2019, 31, e1900599.	11.1	42
148	Self-organized nanofibers from a giant nanographene: effect of solvent and deposition method. Journal of Materials Chemistry, 2006, 16, 266-271.	6.7	41
149	Molecular tectonics based nanopatterning of interfaces with 2D metalâ€“organic frameworks (MOFs). Chemical Communications, 2014, 50, 12250-12253.	2.2	40
150	Photoresponse of supramolecular self-assembled networks on grapheneâ€“diamond interfaces. Nature Communications, 2016, 7, 10700.	5.8	40
151	Thermal insulation with 2D materials: liquid phase exfoliated vermiculite functional nanosheets. Nanoscale, 2018, 10, 23182-23190.	2.8	40
152	MoS2 nanosheets via electrochemical lithium-ion intercalation under ambient conditions. FlatChem, 2018, 9, 33-39.	2.8	40
153	Supramolecular Crystal Engineering at the Solidâ€“Liquid Interface from First Principles: Toward Unraveling the Thermodynamics of 2D Selfâ€Assembly. Advanced Materials, 2009, 21, 1383-1386.	11.1	39
154	Macromolecular Scaffolding: The Relationship Between Nanoscale Architecture and Function in Multichromophoric Arrays for Organic Electronics. Advanced Materials, 2010, 22, E81-8.	11.1	39
155	Guanosine-based hydrogen-bonded 2D scaffolds: metal-free formation of G-quartet and G-ribbon architectures at the solid/liquid interface. Chemical Communications, 2015, 51, 11677-11680.	2.2	38
156	Electronic Decoupling in C₃-Symmetrical Light-Responsive Tris(Azobenzene) Scaffolds: Self-Assembly and Multiphotochromism. Journal of the American Chemical Society, 2018, 140, 16062-16070.	6.6	37
157	Liquidâ€Gated Transistors Based on Reduced Graphene Oxide for Flexible and Wearable Electronics. Advanced Functional Materials, 2019, 29, 1905375.	7.8	37
158	Engineering Optically Switchable Transistors with Improved Performance by Controlling Interactions of Diarylethenes in Polymer Matrices. Journal of the American Chemical Society, 2020, 142, 11050-11059.	6.6	37
159	Molecular Approach to Electrochemically Switchable Monolayer MoS₂ Transistors. Advanced Materials, 2020, 32, e2000740.	11.1	37
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