

# Weng li Deng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85  
papers

1,343  
citations

23  
h-index

31  
g-index

96  
ext. papers

1,581  
ext. citations

4.4  
avg, IF

4.76  
L-index

#	Paper	IF	Citations
85	Solvent Coadsorption Effect on $\pi$ - $\pi$ Halogen-Bonded 2D Self-Assembled Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 5777-5783	3.8	1
84	Elucidating Halogen-Assisted Self-Assembly Enhanced Mechanochromic Aggregation-Induced Emission. <i>ChemPhotoChem</i> , <b>2021</b> , 5, 626-631	3.3	2
83	Halogen bonding controlled 2D self-assembled polymorphism of regioisomeric thienophenanthrene derivatives by coadsorption. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 6811-6816	3.6	1
82	Solvent Effect on Halogen-Bonded Self-Assembled Nanostructures of a 2,9-Dibromo-Phenanthridine Derivative at the Liquid/Solid Interface. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 1378-1383	3.8	2
81	Solvent-Dependent Molecular Isomerization and 2D Self-Assembled Phase Transitions of Benzothiadiazole-Based $\pi$ -Conjugated Fluorophore. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 19325-19332	3.8	1
80	A simple and environmental strategy to separate and purify dye-contaminated emulsion using waste porous honeycomb cinder. <i>Journal of Dispersion Science and Technology</i> , <b>2020</b> , 1-11	1.5	0
79	Molecular trapping in two-dimensional chiral organic Kagom $\pi$ nanoarchitectures composed of Baravelle spiral triangle enantiomers. <i>NPG Asia Materials</i> , <b>2020</b> , 12,	10.3	10
78	Halogen-bonded building block for 2D self-assembly: Triggered by hydrogen-bonding motifs relative to the terminal functions of the side chains. <i>Applied Surface Science</i> , <b>2020</b> , 515, 145983	6.7	9
77	Structural Insights into the Dual-Phase Emission Mechanism of Naphthalene Derivatives with Scanning Tunneling Microscopy, X-ray Diffraction, and Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5715-5722	3.8	2
76	Halogen-Bond-Controlled Self-Assembly of Regioisomeric Phenanthridine Derivatives into Nanowires and Nanosheets. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5665-5671	3.8	7
75	The Br $\pi$ halogen bond assisted self-assembly of an asymmetric molecule regulated by concentration. <i>Chemical Communications</i> , <b>2020</b> , 56, 2727-2730	5.8	9
74	Ordering self-assembly structures via intermolecular Br $\pi$ interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 1437-1443	3.6	3
73	Systematical Investigation of Chain Length Effect on the Melting Point of a Series of Bifunctional Anthraquinone Derivatives via X-ray Diffraction and Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 1646-1654	3.8	7
72	Template-assisted 2D self-assembled chiral Kagom $\pi$ network for selective adsorption of coronene. <i>Chemical Communications</i> , <b>2020</b> , 56, 13991-13994	5.8	5
71	Concentration-Dependent Conformational Isomerization of Fluorenone-Based Polycatenar in 2D Polymorphic Self-Assembly. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25396-25402	3.8	3
70	Structural Diversity and Phase Transition Control via Kinetics and Thermodynamics in Mixed Solvents: Two-Dimensional Self-Assembly at the Liquid/Solid Interface. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 27148-27157	3.8	2
69	Halogen Bonds Fabricate 2D Molecular Self-Assembled Nanostructures by Scanning Tunneling Microscopy. <i>Crystals</i> , <b>2020</b> , 10, 1057	2.3	0

68	Conformation modification of terthiophene during the on-surface synthesis of pure polythiophene. <i>Nanoscale</i> , <b>2020</b> , 12, 18096-18105	7.7	0
67	V-Shape Molecular Self-Adaption Triggered 2D Self-Assembled Polymorphism by Coadsorption of n-Tetradecane Solvent. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 27643-27650	3.8	5
66	Halogen Substituent Effects on Concentration-Controlled Self-Assembly of Fluorenone Derivatives: Halogen Bond versus Hydrogen Bond. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 4349-4359	3.8	18
65	Rapid reversible superwettability transition and controllable oil/water separation based on hierarchical CuO. <i>Surface and Coatings Technology</i> , <b>2019</b> , 374, 144-151	4.4	13
64	Bromine Substituent Position Triggered Halogen versus Hydrogen Bond in 2D Self-Assembly of Fluorenone Derivatives. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 26191-26200	3.8	11
63	Self-Assembly Polymorphism of Regioisomeric Diketopyrrolopyrrole-Based $\pi$ -Conjugated Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1185-1193	3.8	4
62	Highly efficient separation of surfactant stabilized water-in-oil emulsion based on surface energy gradient and flame retardancy. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 520, 1-10	9.3	27
61	Tale of Alkyl Chains: Chain-Length Effect-Directed Formation of Complex Self-Assembly Behaviors at the Liquid/Solid Interface for Unsymmetrically Substituted Fluorenone Derivatives. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 4496-4506	3.8	8
60	Chiral polymorphism in the self-assemblies of achiral molecules induced by multiple hydrogen bonds. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 11160-11173	3.6	8
59	Concentration-dependent multiple chirality transition in halogen-bond-driven 2D self-assembly process. <i>Applied Surface Science</i> , <b>2018</b> , 433, 1075-1082	6.7	8
58	One-step preparation of superhydrophobic acrylonitrile-butadiene-styrene copolymer coating for ultrafast separation of water-in-oil emulsions. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 511, 21-26	9.3	24
57	Same building block, but diverse surface-confined self-assemblies: solvent and concentration effects-induced structural diversity towards chirality and achirality. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 17367-17379	3.6	5
56	Oil/Water Separations from Nanosized Superhydrophobic to Microsized under-Oil Superhydrophilic Dust. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 3398-3406	5.6	12
55	Geometry Symmetry of Conjugated Cores along C-Br Bond Effect on the 2D Self-Assembly by Intermolecular H $\cdots$ Br and Br $\cdots$ Br Bonds. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 15338-15343	3.8	6
54	Exploration of Chirality and Achirality of Self-Assembled Monolayer Formed by Unsymmetrically Substituted Fluorenone Derivative at the Liquid/Solid Interface. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1700611	4.6	9
53	Solvent Effect on Host-Guest Two-Dimensional Self-Assembly Mediated by Halogen Bonding. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 22597-22604	3.8	10
52	Halogen bonding versus hydrogen bonding induced 2D self-assembled nanostructures at the liquid-solid interface revealed by STM. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 3143-3150	3.6	24
51	Polymorphic Self-Assemblies of 2,7-Bis(decyloxy)-9-fluorenone at the Solid/Gas Interface: Role of C-H $\cdots$ O $\cdots$ C Hydrogen Bond. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3947-3957	3.8	18

50	Intermolecular H <sub>2</sub> O $\cdots$ C bonds induced 2D self-assembly of thiophene based diketopyrrolopyrrole derivative. <i>Surface and Interface Analysis</i> , <b>2017</b> , 49, 735-739	1.5	3
49	Superamphiphobic aluminum surfaces that maintain robust stability after undergoing severe chemical and physical damage. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 1334-1345	3.6	11
48	One-Step Fabrication of Non-Fluorinated Transparent Super-Repellent Surfaces with Tunable Wettability Functioning in Both Air and Oil. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15857-15867	2.5	31
47	Morphological and structural characterization of the attachment system in aerial roots of <i>Syngonium podophyllum</i> . <i>Planta</i> , <b>2017</b> , 245, 507-521	4.7	11
46	Eco-friendly preparation of robust superhydrophobic Cu(OH) <sub>2</sub> coating for self-cleaning, oil-water separation and oil sorption. <i>Surface and Coatings Technology</i> , <b>2017</b> , 325, 14-21	4.4	36
45	A Cycle-Etching Approach Toward the Fabrication of Superamphiphobic Stainless Steel Surfaces With Excellent Anticorrosion Properties. <i>Advanced Engineering Materials</i> , <b>2017</b> , 19, 1600879	3.5	19
44	Cooperation and competition between halogen bonding and van der Waals forces in supramolecular engineering at the aliphatic hydrocarbon/graphite interface: position and number of bromine group effects. <i>Nanoscale</i> , <b>2017</b> , 9, 237-250	7.7	29
43	A robust superhydrophobic PDMS@ZnSn(OH) <sub>6</sub> coating with under-oil self-cleaning and flame retardancy. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22761-22771	13	58
42	Effect of Pyridyl Orientation on the Molecular Conformation and Self-Assembled Morphology of Regioisomeric Diketopyrrolopyrrole Derivatives. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19305-19313	3.8	5
41	One Chain Fixed, One Chain Modified by C <sub>5</sub> H <sub>10</sub> N: An Efficient Strategy on Fabricating Structural Diversity for 2D Self-Assembly. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 21449-21460	3.8	8
40	Robust and thermal-healing superhydrophobic surfaces by spin-coating of polydimethylsiloxane. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 508, 18-27	9.3	54
39	Effects of alkyl chain number and position on 2D self-assemblies. <i>RSC Advances</i> , <b>2017</b> , 7, 32391-32398	3.7	10
38	Two side chains, three supramolecules: exploration of fluorenone derivatives towards crystal engineering. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 19205-19216	3.6	10
37	Cooperating dipole-dipole and van der Waals interactions driven 2D self-assembly of fluorenone derivatives: ester chain length effect. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 31113-31120	3.6	13
36	Hydroxyl versus Carboxyl Substituent: Effects of Competitive and Cooperative Multiple Hydrogen Bonds on Concentration-Controlled Self-Assembly. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 14187-14197	3.8	35
35	STM investigation of structural isomers: alkyl chain position induced self-assembly at the liquid/solid interface. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 624-34	3.6	29
34	Structural transition control between dipole-dipole and hydrogen bonds induced chirality and achirality. <i>CrystEngComm</i> , <b>2016</b> , 18, 3019-3032	3.3	23
33	Effects of the position and number of bromine substituents on the concentration-mediated 2D self-assembly of phenanthrene derivatives. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7208-15	3.6	20

32	Fabrication of chiral networks for a tri-substituted anthraquinone derivative using molecular self-assembly. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 13164-8	3.6	10
31	STM Exploration of the Diverse Polymorphs for Tri-Substituted Anthraquinone Derivatives via Alkyl Chain Elongation. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600428	4.6	6
30	Controllable Orientation of Ester-Group-Induced Intermolecular Halogen Bonding in a 2D Self-Assembly. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 3164-70	6.4	37
29	Chiral Transition of the Supramolecular Assembly by Concentration Modulation at the Liquid/Solid Interface. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 17920-17929	3.8	25
28	Concentration-dependent structure and structural transition from chirality to nonchirality at the liquid-solid interface by coassembly. <i>Nanoscale</i> , <b>2015</b> , 7, 11734-45	7.7	28
27	A simple method to prepare superamphiphobic aluminum surface with excellent stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 481, 143-150	5.1	47
26	Self-assembly polymorphism of 2,7-bis-nonyloxy-9-fluorenone: solvent induced the diversity of intermolecular dipole-dipole interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 3627-36	3.6	21
25	Side chain position, length and odd/even effects on the 2D self-assembly of mono-substituted anthraquinone derivatives at the liquid/solid interface. <i>RSC Advances</i> , <b>2015</b> , 5, 93337-93346	3.7	12
24	Concentration dependent halogen-bond density in the 2D self-assembly of a thienophenanthrene derivative at the aliphatic acid/graphite interface. <i>Chemical Communications</i> , <b>2014</b> , 50, 9003-6	5.8	45
23	Review on the adhesive tendrils of <i>Parthenocissus</i> . <i>Science Bulletin</i> , <b>2014</b> , 59, 113-124		8
22	Two-dimensional self-assembly of single-, poly- and co-crystals at the liquid/solid interface. <i>CrystEngComm</i> , <b>2014</b> , 16, 9690-9696	3.3	9
21	Solvent- and guest-responsive supramolecular self-assembly of 1,3,5-tris(10-carboxydecyloxy) benzene by scanning tunneling microscopy. <i>Applied Surface Science</i> , <b>2014</b> , 313, 841-849	6.7	4
20	A facile approach for preparing biomimetic polymer macroporous structures with petal or lotus effects. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 1011	3.6	14
19	Steric matching and the concentration induced self-assembled structural variety of 2,7-bis(n-alkoxy)-9-fluorenone at the aliphatic solvent/graphite interface. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 12544-53	3.6	23
18	Room-temperature pulsed laser deposition and dielectric properties of amorphous Bi <sub>3.95</sub> Er <sub>0.05</sub> Ti <sub>3</sub> O <sub>12</sub> thin films on conductive substrates. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 111, 1113-1117	2.6	3
17	Dipole-Controlled Self-Assembly of 2,7-Bis(n-alkoxy)-9-fluorenone: Odd/Even and Chain-Length Effects. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 12707-12714	3.8	46
16	Solvent-Dependent Self-Assembly of 4,7-Dibromo-5,6-bis(octyloxy)benzo[c][1,2,5] Thiadiazole on Graphite Surface by Scanning Tunneling Microscopy. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-7	3.2	1
15	Hydrogen-bonding-induced polymorphous phase transitions in 2D organic nanostructures. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 926-33	4.5	31

14	Self-Assembly Polymorphism: Solvent-Responsive Two-Dimensional Morphologies of 2,7-Ditridecyloxy-9-fluorenone by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 16014-16022	3.8	35
13	Self-assembly of dendronized non-planar conjugated molecules on a HOPG surface. <i>Applied Surface Science</i> , <b>2012</b> , 263, 73-78	6.7	10
12	Two-Dimensional Self-Assembled Molecular Structures Formed by the Competition of van der Waals Forces and Dipole-Dipole Interactions. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 1061-1069	3.8	76
11	Synthesis and Crystal Structures of Spiro[1,3-Dihydroperimidine-2,9?-Fluorene] and its Co-Crystal with 9-Fluorenone. <i>Journal of Chemical Crystallography</i> , <b>2011</b> , 41, 1534-1538	0.5	1
10	Characterization and electric field dependence of N,N?-bis(9H-fluorene-9-ylidene)benzene-1,4-diamine thin film/substrate interface. <i>Surface and Interface Analysis</i> , <b>2011</b> , 43, 954-958	1.5	
9	Solvent-Induced Structural Transitions of a 1,3,5-Tris(10-ethoxycarbonyldecyloxy)benzene Assembly Revealed by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 3358-3367	3.8	34
8	Biological adhesion of Parthenocissus tricuspidata. <i>Archives of Biological Sciences</i> , <b>2011</b> , 63, 393-398	0.7	10
7	Morphology and mechanics of the adhesive disc of liana Parthenocissus tricuspidata. <i>Pure and Applied Chemistry</i> , <b>2010</b> , 82, 91-96	2.1	5
6	Tuning the packing density of host molecular self-assemblies at the solid-liquid interface using guest molecule. <i>Chemical Communications</i> , <b>2010</b> , 46, 8830-2	5.8	29
5	Two-dimensional self-assembly of a porphyrin-polypyridyl ruthenium(II) hybrid on hopg surface through metal-ligand interactions. <i>ChemPhysChem</i> , <b>2010</b> , 11, 1951-5	3.2	7
4	Influence of hydrogen bonds and double bonds on the alkane and alkene derivatives self-assembled monolayers on HOPG surface: STM observation and computer simulation. <i>Applied Surface Science</i> , <b>2010</b> , 256, 4647-4655	6.7	34
3	Adsorption characteristic of self-assembled corrole dimers on HOPG. <i>Surface and Interface Analysis</i> , <b>2009</b> , 41, 225-230	1.5	15
2	Tendrils, adhesive disc and super adhesive effect of climbing plant. <i>Nature Precedings</i> , <b>2008</b> ,		1
1	Scanning tunneling microscopy study of DNA-chromophore motif on solid surfaces. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 6544-8	3.4	4