

# Nobuhiko Hosono

## List of Publications by Citations

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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.

53  
papers

1,664  
citations

20  
h-index

40  
g-index

59  
ext. papers

2,108  
ext. citations

9.7  
avg, IF

5.51  
L-index

#	Paper	IF	Citations
53	Design and control of gas diffusion process in a nanoporous soft crystal. <i>Science</i> , <b>2019</b> , 363, 387-391	33.3	177
52	Orthogonal self-assembly in folding block copolymers. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 501-10	16.4	166
51	Large-area three-dimensional molecular ordering of a polymer brush by one-step processing. <i>Science</i> , <b>2010</b> , 330, 808-11	33.3	153
50	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 5684-5689	16.4	108
49	Chemistry of Soft Porous Crystals: Structural Dynamics and Gas Adsorption Properties. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15325-15341	16.4	96
48	Modular Design of Porous Soft Materials via Self-Organization of Metal-Organic Cages. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 2437-2446	24.3	87
47	Forced unfolding of single-chain polymeric nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 6880-8	16.4	78
46	Metal-Organic Polyhedral Core as a Versatile Scaffold for Divergent and Convergent Star Polymer Synthesis. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 6525-31	16.4	71
45	Carbon dioxide capture and efficient fixation in a dynamic porous coordination polymer. <i>Nature Communications</i> , <b>2019</b> , 10, 4362	17.4	56
44	Highly responsive nature of porous coordination polymer surfaces imaged by in situ atomic force microscopy. <i>Nature Chemistry</i> , <b>2019</b> , 11, 109-116	17.6	49
43	Cooperative Bond Scission in a Soft Porous Crystal Enables Discriminatory Gate Opening for Ethylene over Ethane. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 18313-18321	16.4	47
42	Readily accessible shape-memory effect in a porous interpenetrated coordination network. <i>Science Advances</i> , <b>2018</b> , 4, eaaq1636	14.3	42
41	Efficient CO Removal for Ultra-Pure CO Production by Two Hybrid Ultramicroporous Materials. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 3332-3336	16.4	38
40	"Soldier-Sergeant-Soldier" triblock copolymers: revealing the folded structure of single-chain polymeric nanoparticles. <i>Chemical Communications</i> , <b>2014</b> , 50, 7990-3	5.8	37
39	Photoinduced Deformation of Rigid Azobenzene-Containing Polymer Networks. <i>Macromolecules</i> , <b>2013</b> , 46, 1017-1026	5.5	33
38	Recognition of Polymer Terminus by Metal-Organic Frameworks Enabling Chromatographic Separation of Polymers. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3701-3705	16.4	28
37	Development of a Porous Coordination Polymer with a High Gas Capacity Using a Thiophene-Based Bent Tetracarboxylate Ligand. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33455-33460	9.5	25

36	A molecular dynamics simulation study on polymer networks of end-linked flexible or rigid chains. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 164905	3.9	24
35	Fine-tuning optimal porous coordination polymers using functional alkyl groups for CH <sub>4</sub> purification. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17874-17880	13	23
34	Anisotropic coordination star polymers realized by self-sorting core modulation. <i>Chemical Communications</i> , <b>2017</b> , 53, 8180-8183	5.8	20
33	Modular Self-Assembly and Dynamics in Coordination Star Polymer Glasses: New Media for Ion Transport. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8555-8561	9.6	20
32	Consequences of block sequence on the orthogonal folding of triblock copolymers. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 1099-107	4.5	18
31	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 5786-5791	3.6	17
30	Photochemical control of network structure in gels and photo-induced changes in their viscoelastic properties. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2007</b> , 56, 285-9	6	17
29	Structural-Deformation-Energy-Modulation Strategy in a Soft Porous Coordination Polymer with an Interpenetrated Framework. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15517-15521	16.4	16
28	Metal-Organic Frameworks for Macromolecular Recognition and Separation. <i>Matter</i> , <b>2020</b> , 3, 652-663	12.7	16
27	Anisotropic convergence of dendritic macromolecules facilitated by a heteroleptic metal-organic polyhedron scaffold. <i>Chemical Communications</i> , <b>2018</b> , 54, 5209-5212	5.8	15
26	Die Chemie verformbarer poröser Kristalle – Strukturdynamik und Gasadsorptionseigenschaften. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15438-15456	3.6	14
25	Bottom-up Synthesis of Defect-free Mixed-matrix Membranes by Using Polymer-grafted Metal-Organic Polyhedra. <i>Chemistry Letters</i> , <b>2019</b> , 48, 597-600	1.7	14
24	The effect of pendant benzene-1,3,5-tricarboxamides in the middle block of ABA triblock copolymers: synthesis and mechanical properties. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 1463-1470	4.9	14
23	Unimolecularly thick monosheets of vinyl polymers fabricated in metal-organic frameworks. <i>Nature Communications</i> , <b>2020</b> , 11, 3573	17.4	14
22	Paraffinic metal-organic polyhedrons: solution-processable porous modules exhibiting three-dimensional molecular order. <i>Chemical Communications</i> , <b>2018</b> , 54, 7290-7293	5.8	14
21	Finely Controlled Stepwise Engineering of Pore Environments and Mechanistic Elucidation of Water-Stable, Flexible 2D Porous Coordination Polymers. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 6412-6417	4.8	13
20	Pseudo-Gated Adsorption with Negligible Volume Change Evoked by Halogen-Bond Interaction in the Nanospace of MOFs. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 2148-2153	4.8	11
19	Design of Porous Coordination Materials with Dynamic Properties. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 60-69	5.1	11

18	Microwave-Assisted Hydrothermal Synthesis of [Al(OH)(1,4-NDC)] Membranes with Superior Separation Performances. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2072-2076	4.5	9
17	Efficient CO <sub>2</sub> Removal for Ultra-Pure CO Production by Two Hybrid Ultramicroporous Materials. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 3390-3394	3.6	8
16	Metal-Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11830-11834	16.4	8
15	Observation of an exotic state of water in the hydrophilic nanospace of porous coordination polymers. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	7
14	Crystal Flexibility Design through Local and Global Motility Cooperation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7030-7035	16.4	7
13	Atomic Force Microscopy Study of the Influence of the Synthesis Conditions on the Single-Crystal Surface of Interdigitated Metal-Organic Frameworks. <i>ChemPhysChem</i> , <b>2018</b> , 19, 2134-2138	3.2	6
12	Photochemical reaction in azobenzene-containing rigid poly(amide acid) networks. <i>Polymer</i> , <b>2014</b> , 55, 5648-5655	3.9	6
11	Hinge-Linked Polymer Gels: A Rigid Network Cross-Linked with a Rotatable Tetrasubstituted Ferrocene. <i>Macromolecular Chemistry and Physics</i> , <b>2013</b> , 214, 1356-1362	2.6	6
10	Development of Functional Materials via Polymer Encapsulation into Metal-Organic Frameworks. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 2139-2148	5.1	6
9	Metal-Organic Frameworks as Versatile Media for Polymer Adsorption and Separation. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 3593-3603	24.3	6
8	Revisiting molecular adsorption: unconventional uptake of polymer chains from solution into sub-nanoporous media. <i>Chemical Science</i> , <b>2021</b> , 12, 12576-12586	9.4	5
7	Structural-Deformation-Energy-Modulation Strategy in a Soft Porous Coordination Polymer with an Interpenetrated Framework. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15647-15651	3.6	2
6	Rigid Polyimide Networks End-Linked with Tri- and Tetra-armed Crosslinkers. <i>Macromolecular Chemistry and Physics</i> , <b>2014</b> , 215, 988-997	2.6	2
5	Atomic Force Microscopy Study of the Influence of the Synthesis Conditions on the Single-Crystal Surface of Interdigitated Metal-Organic Frameworks. <i>ChemPhysChem</i> , <b>2018</b> , 19, 2122-2122	3.2	
4	?????????????????????????????????????. <i>Kobunshi</i> , <b>2007</b> , 56, 493-496		
3	Design and Application of Porous Coordination Materials with Soft and Dynamic Nature. <i>Bulletin of Japan Society of Coordination Chemistry</i> , <b>2020</b> , 75, 42-50	0.3	
2	Metal-Organic Frameworks for Practical Separation of Cyclic and Linear Polymers. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 11936-11940	3.6	
1	Crystal Flexibility Design through Local and Global Motility Cooperation. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7106-7111	3.6	

