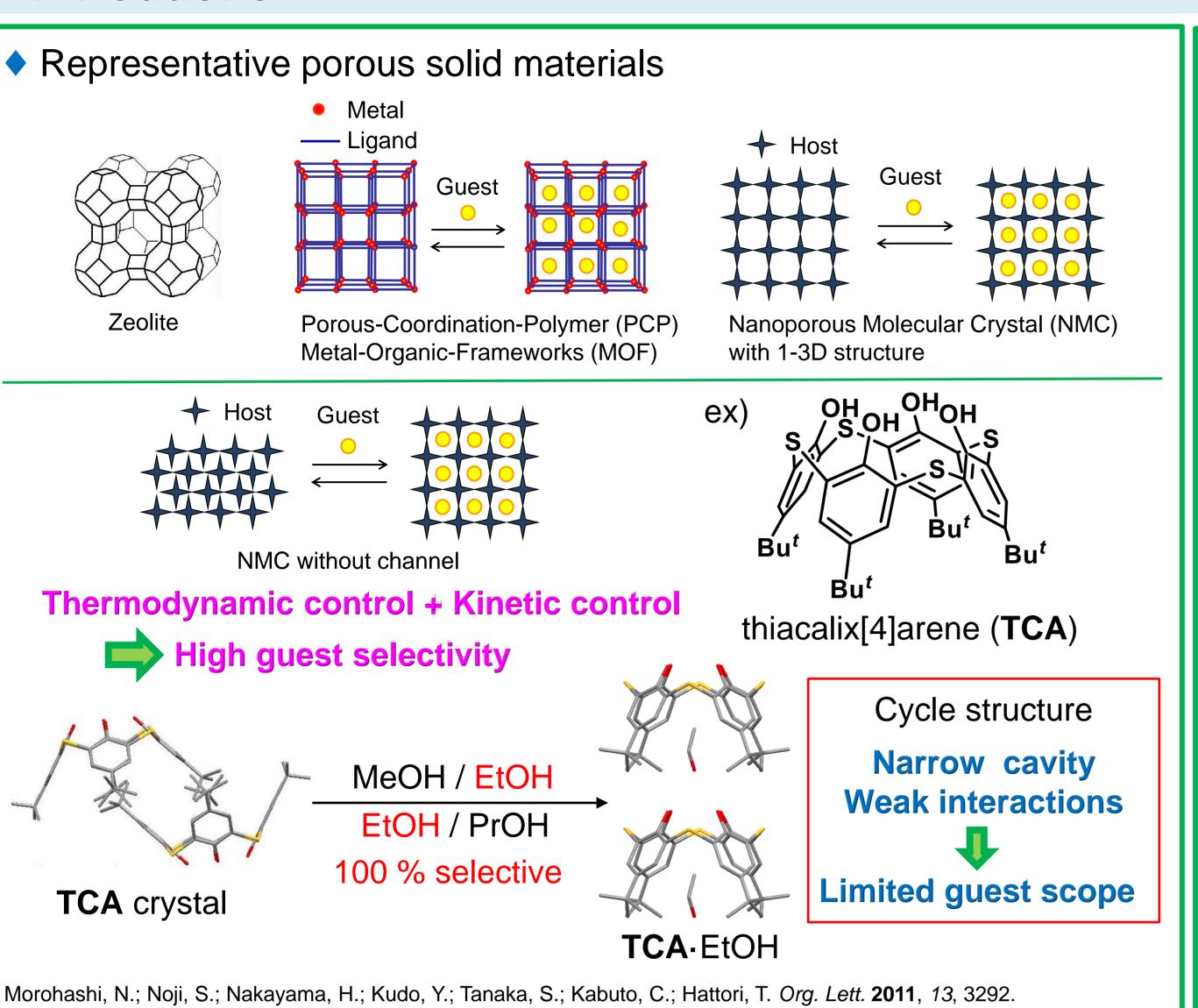


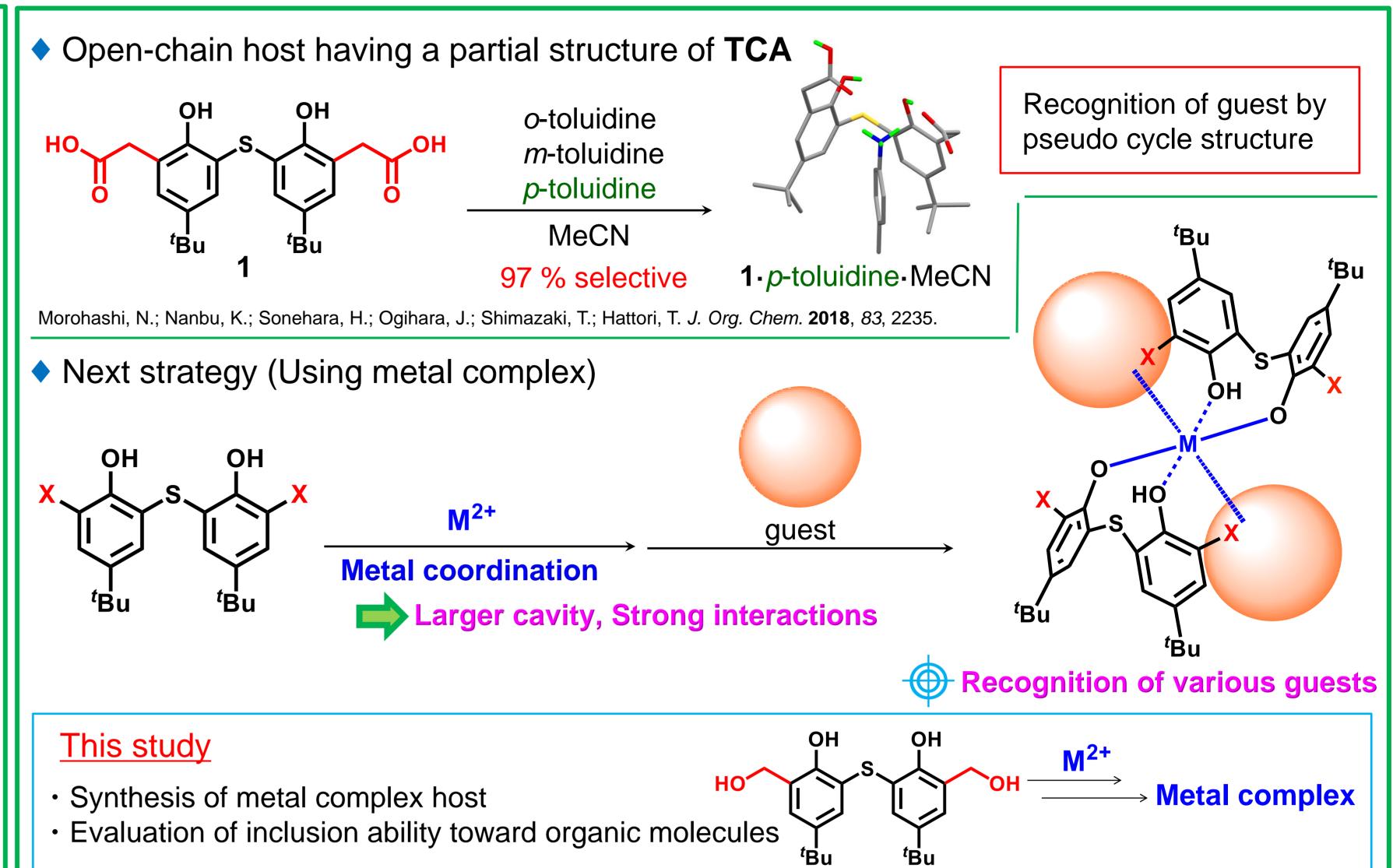
## Selective inclusion of carboxylic acids with crystals of a tetranuclear zinc(II) complex ligated by 6,6'-thiobis(4-*tert*-butyl-2-hydroxymethylphenol)

OKeisuke Hara, Ikuko Miyoshi, Naoya Morohashi, and Tetsutaro Hattori

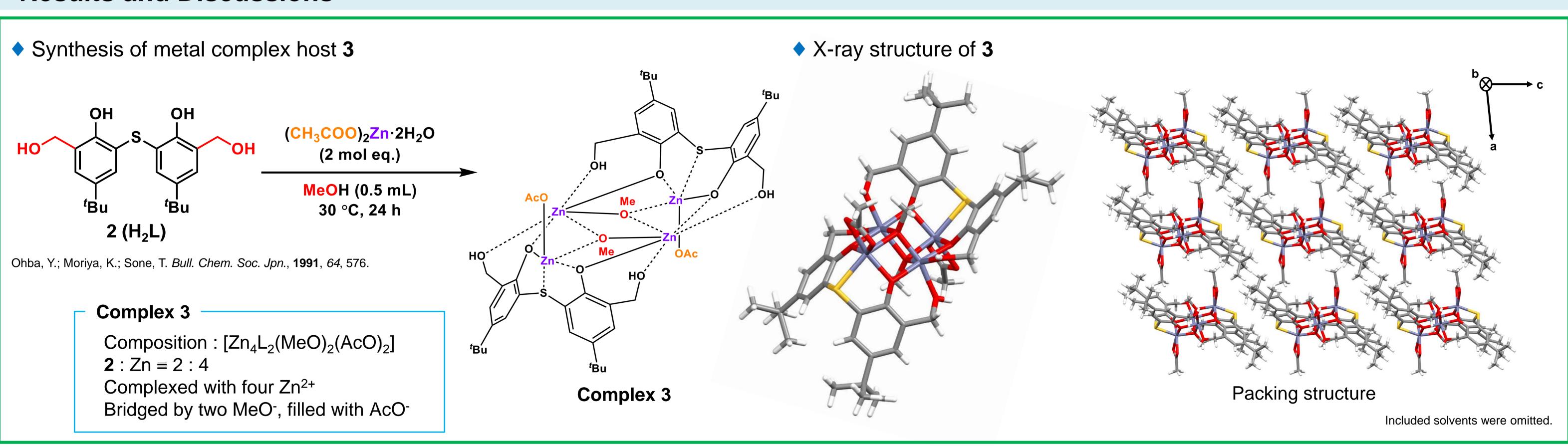
Graduate School of Engineering, Tohoku University, Sendai, Japan

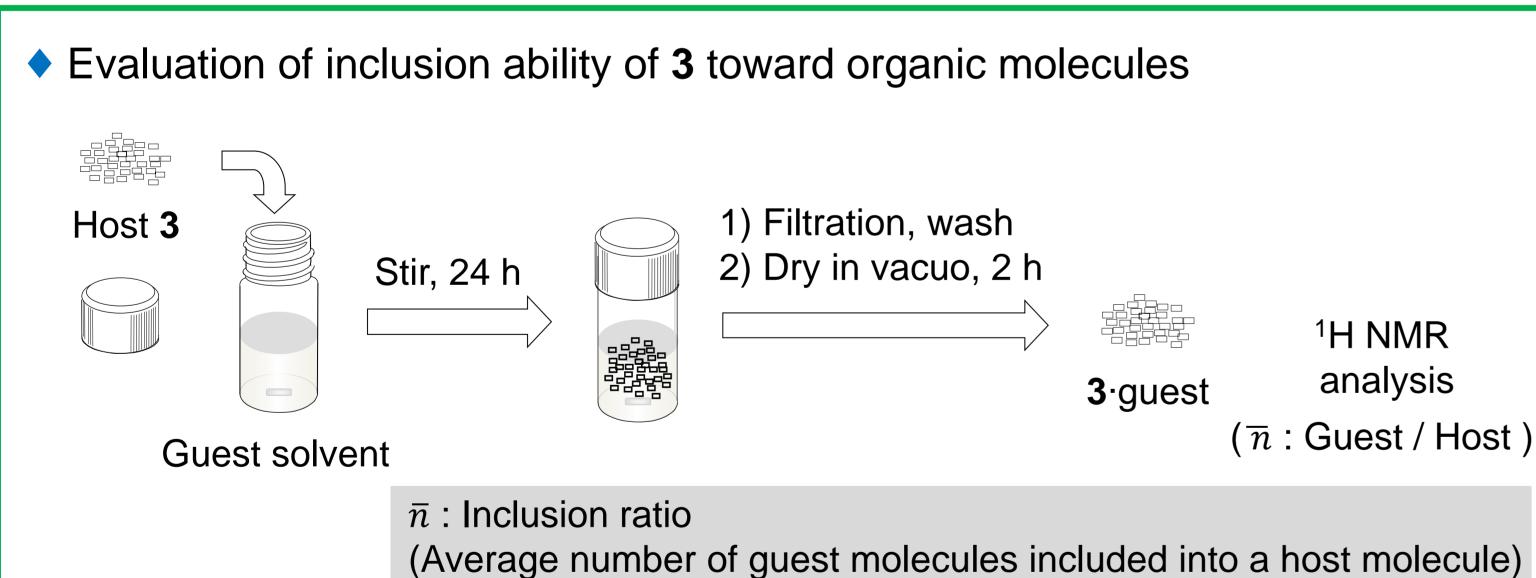
## Introduction





## **Results and Discussions**





	10 mol eq.	for 3 (30 °C	C)		2 mol eq. for 3	30 °C)	
entry	guest	solvent	$\overline{n}$	entry	guest	solvent	$\overline{n}$
1		hexane	<b>_a</b>	1	COOH	MeOH	1.9
2	ОН	hexane	<b>_</b> a	2	COOH OCH <sub>3</sub>	MeOH	2.0
3	OH	hexane	<b>_</b> a	3	COOH OCH <sub>3</sub>	MeOH	1.7
4 5	OH	hexane MeOH	_a _a	4	COOH OCH <sub>3</sub>	MeOH	1.4
6	COOH	MeOH	2.0	5	COOH	MeOH	1.4
				6	COOH	МеОН	1.3

! Ligand exchange with the acetate ions occurred.

© 3 included various sizes carboxylic acid.

© High quantitativity

 Competitive inclusion of regioisomers of anisic acid and naphthoic acid Each 2 mol eq. for 3 (60 °C) S [%] entry solvent guest COOH COOH COOH MeOH High inclusion ratio **○ 100 % selectivity** COOH COOH MeOH Packing structure of 3-1-naphthoic acid Packing structure of 3-o-anisic acid Included solvents were omitted. Included solvents were omitted. High selectivity of 3 for these regioisomers was owing to difference in steric hindrance.

