

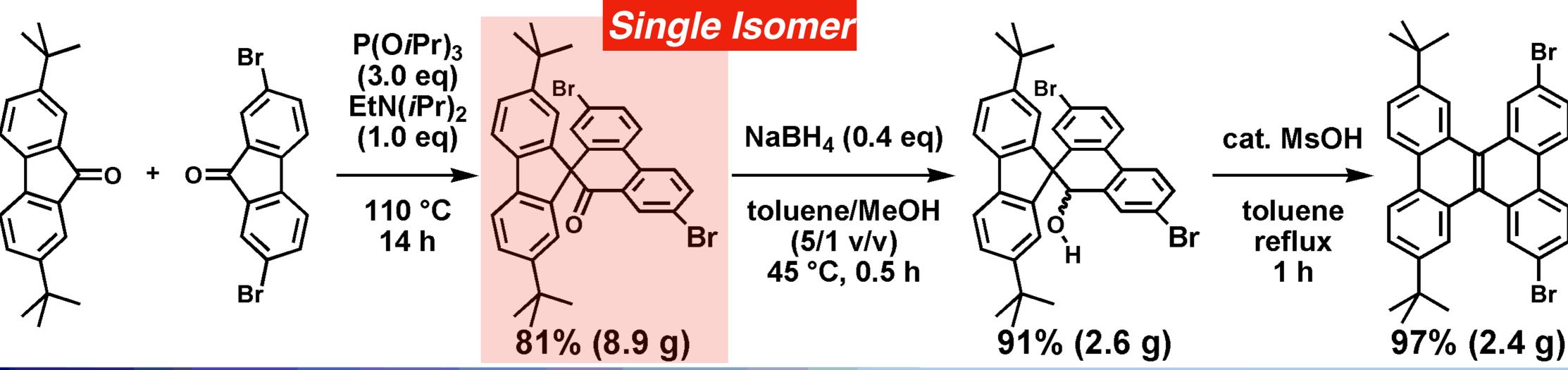
Cross-Dimerization of Fluorenones for Metal-Free Synthesis of Polyarenes

Here, the paper

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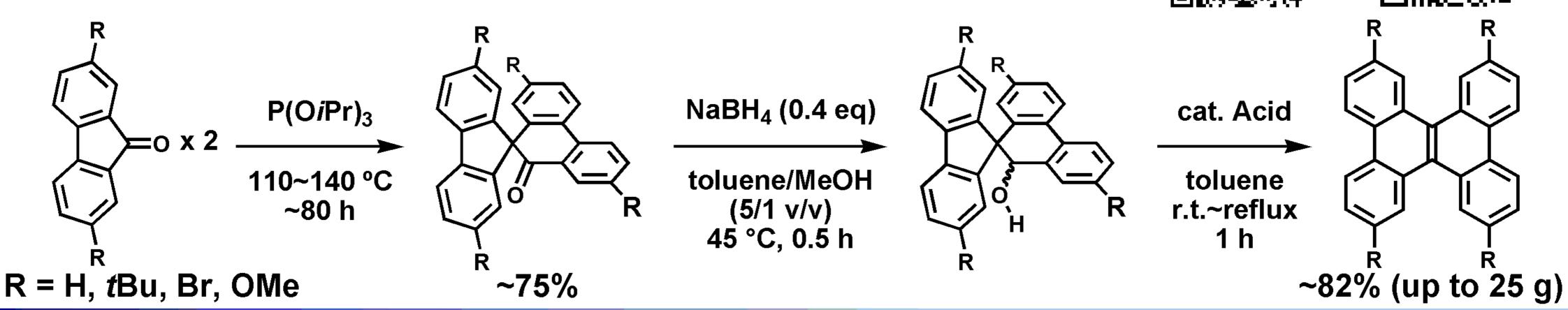
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1. Summary, 特願2021-182745: *Tetrahedron* 2023, *143*, 133549.

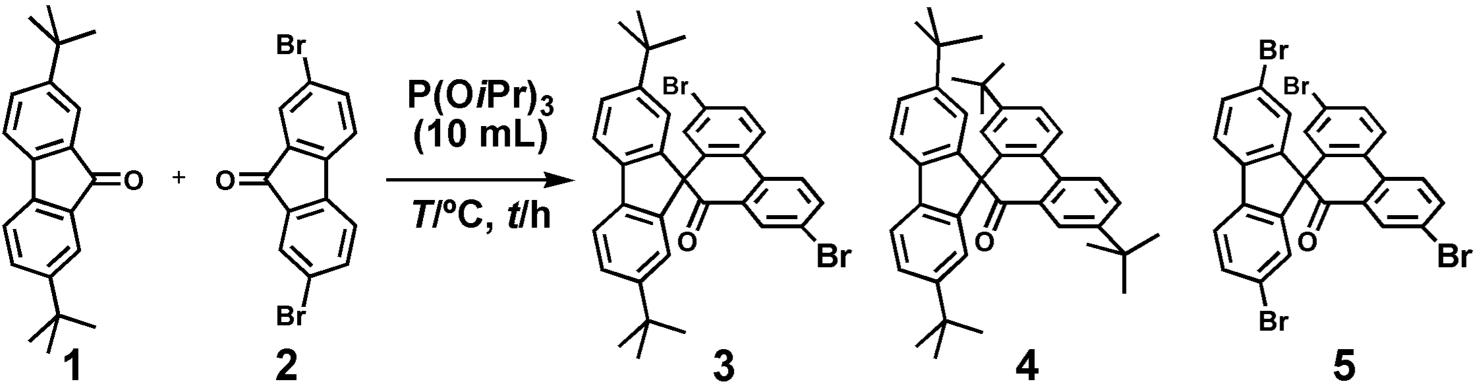


2. Background

- a) N. Yoshida, et. al., Tetrahedron Lett. 2020, 61, 152033.
- **b)** Y. Fujii, et. al., Tetrahedron **2021**, 95, 132353.



3. Evaluation of reaction conditions for the cross-dimerization

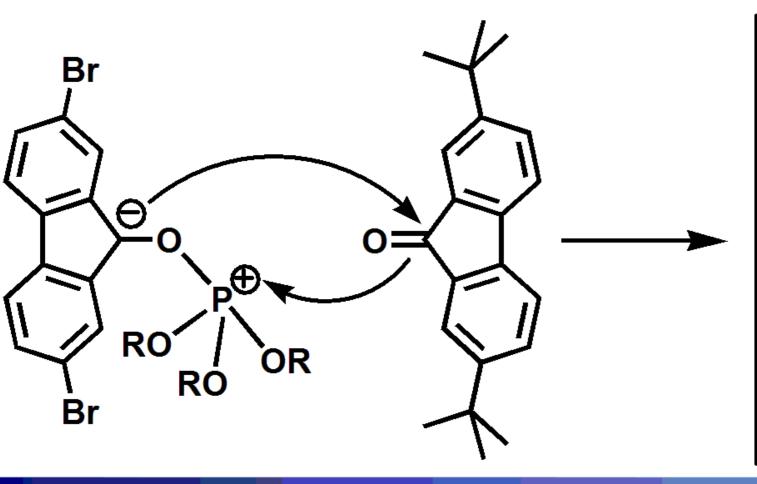


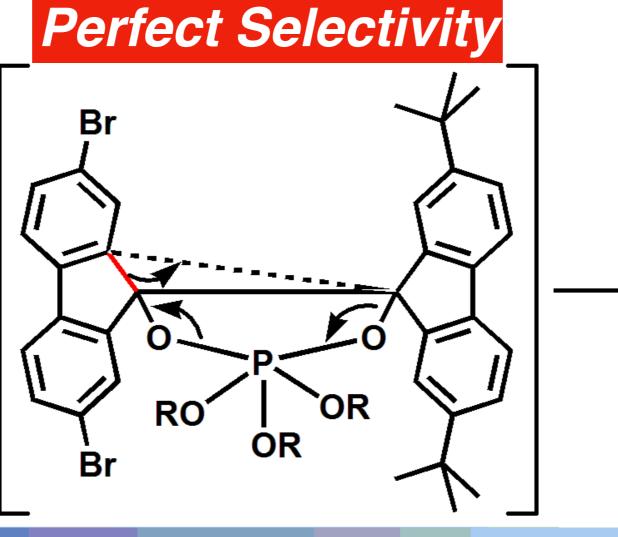
	Entry	T/°C	<i>t</i> /h	1	2	3	4	5
	1	95	24	7	0	48	5	1
	2	110	3	33	0	58	1	7
	3	140	1	29	0	50	4	11
	4 [a]	110	3	87	_	_	13	_
•	5 ^[b]	110	3	_	12	_	_	69
	[a] Hor	no-dime	rizatio	on of 1	l was	carrie	ad out	

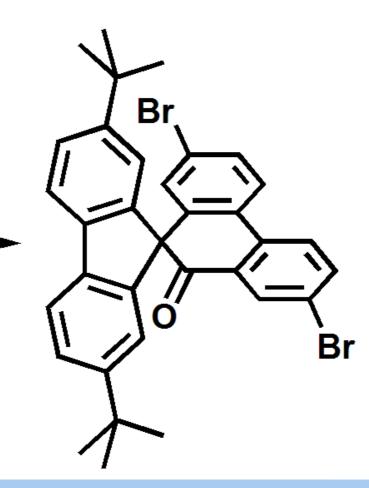
b

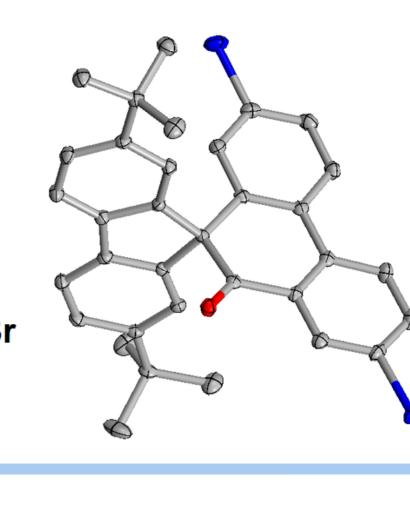
[a] Homo-dimerization of 1 was carried out.[b] Homo-dimerization of 2 was carried out.

4. Plausible mechanism









Yield/%

5. Effect of substituents on the cross-dimerization tBu R

