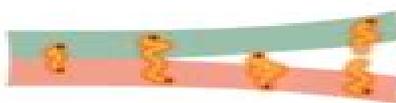


# Functional Binders



## 1. High mass loading

- **Adhesion** → Stronger interfacial interaction (e.g. hydrogen bond, Coulombic attraction,  $\pi$ - $\pi$  stacking)
- **Strength** → Physical or chemical crosslink (e.g. double helix, or organic and inorganic crosslinker))



Layer detachment



Layer cohesion

## 2. Drastic volume change

- **Disperse stress** → Sacrificial bonds & dendrimers
- **Buffer stress** → High elasticity and toughness
- **Overcome repeated expansion and contraction** → Self-healing ability from reversible interaction



Electrode delamination



Particle pulverization

## 3. High voltage

- **Inhibit migration of TM ions** → Polar and electron-rich functional groups (e.g.  $-\text{CN}$ )
- **Scavenge free radical and reactive oxygen** → Piperidine-based polymer



## 4. Large electric impedance

- **Conjugate polymeric backbone** → Polyfluorene, polythiophene, polyaniline, polypyrrole
- **Graft conductive fragment** → Pyrene

## 5. Large ionic impedance

- **Decrease crystallinity** → Increase graft degree
- **Graft flexible or ionized fragments** → Ethylene oxide or lithium sulfonate and lithium carboxylate



## 6. Thermal safety

- **Enhance thermal stability** → Inorganic binder & polyimide-based binder
- **Flame-retardant binder** → Rich in N and P elements (e.g. phosphazene)



## 7. Compatibility in special process

- **Aqueous binder** → Polar and easy to form hydrogen bonds (e.g.  $-\text{OH}$ ,  $-\text{COOH}$ ,  $-\text{NH}_2$ )
- **Weak-polarity binder** → Alkane and arene
- **Binder for solvent-free electrodes** → Thermal dispersibility



# The High Binders

**Lingsheng Yao**



## **The High Binders:**

The Bradys and the "Highbinders;" Or, The Hot Case in Chinatown ,1902      **The Bradys and the Highbinders**  
**League; Or, The Plot to Burn Chinatown** ,1906      **The Highbinders** Oliver Bleeck,Ross Thomas,1974 Professional go  
between Philip St Ives finds himself in a London jail even before he has accepted an offer to recover the fabulous Sword of St  
Louis which has or has it been stolen and is being ransomed When he starts looking for it St Ives becomes involved in a  
deadly game of deception and murder with a bizarre group of characters that includes two professional con men highbinders  
*Binders and Materials XI* Karel Dvořák,Dominik Gazdič,Vít Petranek,Iveta Hájková,Radek Magrla,2014-02-19 Selected  
peer reviewed papers from the 11th International Conference Binders and Materials 2013 ICBM 2013 December 5 2013 Brno  
Czech Republic      **Geyer's Stationer** ,1918      **An American Glossary** Richard Hopwood Thornton,1931      The  
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trying to work out who stole 3m in gold from the U S mint when Jay McGraw walks into a police station with a beautiful  
Chinese slave girl and an incredible story      Electrical World ,1914      The Century Dictionary and Cyclopedic: Dictionary  
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Guangzhou China      *Annual Report of the Commissioner of Agriculture and Arts for the Province of Ontario, for the Year*  
,1887 Consists of individual reports for each of the branches of the department      Report of the Commissioner of  
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Warehousing Industry Conference 1st 2d      Chemical & Metallurgical Engineering Eugene Franz Roeber,Howard Coon  
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