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原著論文

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特許番号：8,816,040 B2

発明者：T. Kanbara, J. Kuwabara, H. Yamada, N. Fujimoto,

US への出願 13/461,933 特許 US8,816,040B2

発明の名称：高分子色素

出願番号：特願 2012-220175

特許番号：特許 5952156

発明者：神原貴樹、桑原純平、山田晃、藤本信貴、宮原亮

出願日：2012/10/2

発明の名称：化合物の製造方法

出願番号：特願 2011-188534

特許番号：特許 5855391

発明者：桑原純平、神原貴樹、藤波洋平、山崎光太郎、吉村研

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### **科学研究費補助金**

新学術領域研究  $\pi$  造形科学, H29-H30,  
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基盤 C, H29-H31,

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若手 B, H27-H28,

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触媒的酸素酸化カップリングを利用した  $\pi$  共役高分子の合成

若手スタートアップ, H20-H21,  
配位結合と水素結合の共同作業による分子集合体の構造制御

特別研究員奨励費, H17-H18,  
新しいオレフィン重合触媒機能を有する複核有機金属錯体

### 科学研究費補助金以外の外部資金

NEDO 先導的産業技術創出事業（若手研究グラント） H23-H27  
有機薄膜太陽電池用素材の製造コスト低減と高純度化を達成する重縮合反応の  
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### 研究助成金

公益財団法人徳山財団 研究助成 R2,  
Aza-Diels-Alder 反応を鍵とする含窒素多環芳香族化合物の合成法の開発

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有機顔料の特性を活かした有機半導体材料の創製

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高度に制御された  $\pi$  共役高分子の新しい合成戦略

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### 国際学会渡航費支援

財団法人 松籟科学技術振興財団 国際研究集会派遣, H24  
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### 筑波大学内の競争的研究支援

つくば産学連携強化プロジェクト, H30-H31  
藻類オイルと硫黄を原料とする赤外透過材料の開発

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高品質な共役高分子材料の低コスト製造と特性評価

筑波大学産学連携推進プロジェクト, H23,  
コストと環境負荷を低減した  $\pi$  共役系高分子の合成方法の開拓と機能材料開発  
への応用

筑波大学学際物質科学研究拠点若手研究者研究支援, H22,  
独自の方法論を用いた  $\pi$  共役高分子の合成と有機電子材料としての評価

筑波大学研究基盤総合センター分析部門 研究助成, H20,  
配位結合と DNA 塩基対の水素結合を用いた分子集合体の構築

筑波大学研究科プロジェクト, H20,  
配位結合と DNA 塩基対の水素結合を用いた分子集合体の構築,

筑波大学学際物質科学研究拠点若手研究者研究支援, H19,  
高分子半導体を用いた高効率光エネルギー変換システムの構築,