

業績リスト

高知大学教育研究部
総合科学系複合領域科学部門
教授
上田 忠治

(a) 査読つき学術論文

- 65) “Influence of 1-butyl-3-methylimidazolium on the electron transfer kinetics associated with the $[\text{SVW}_{11}\text{O}_{40}]^{3-/4-}$ ($\text{V}^{\text{V/IV}}$) and $[\text{SVW}_{11}\text{O}_{40}]^{4-/5-}$ ($\text{W}^{\text{VI/V}}$) processes in dimethylformamide”, J. Li, C.L. Bentley, A.M. Bond, J. Zhang, T. Ueda, *J. Electroanal. Chem.*, **779**, 67-74 (2016).
- 64) “New Electrochemical Evaluation of the Antioxidant Capacity of Beverages with Polyoxometalates as Redox Probes”, T. Ueda, T. Okumura, Y. Tanaka, S. Akase, T. Shimamura, H. Ukeda, *Anal. Sci.*, **32**, 825-830 (2016).
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- 62) “The enhancement of the formation of Wells-Dawson-type polyoxometalates by the addition of high concentrations of LiCl”, T. Ueda, M. Suzuki, T. Toya, *J. Cluster Sci.*, **27**(2), 501-511 (2016).
- 61) “Vanadium(V)-Substitution Reactions of Wells-Dawson-type Polyoxometalates: From $[\text{X}_2\text{M}_{18}\text{O}_{62}]^{6-}$ ($\text{X} = \text{P, As}$; $\text{M} = \text{Mo, W}$) to $[\text{X}_2\text{VM}_{17}\text{O}_{62}]^{7--}$ ”, T. Ueda, Y. Nishimoto, R. Saito, M. Ohnishi, J.-i. Nambu, *Inorganics*, **3**, 355-369 (2015).
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- 58) “Spontaneous Redox Syntheses and Characterization of the Tetrathiafulvalene -Vanadium-Substituted Polyoxometalate Charge Transfer Materials $\text{TTF}_4[\text{SVW}_{11}\text{O}_{40}]$: Comparison with the Mo Analogue”, Q. Li, J. Lu, J. F. Boas, D. A. K. Traore, M. C. J. Wilce, L. L. Martin, T. Ueda, A. M. Bond, *Inorg. Chem.*, **53**, 10996-11006 (2014).
- 57) “New extraction procedure for protonated polyoxometalates prepared in aqueous-organic solution and characterisation of their catalytic ability”, T. Ueda, K. Yamashita, A. Onda, *Appl. Catal. A: General*, **485**, 181-187 (2014).
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(b) 総説・著書・紀要

- 6) "Vanadium-containing Polyoxometalates: Synthesis, Structure and Properties", Tadaharu Ueda, Polyoxometalates –Properties, Structure and Synthesis-, NOVA publishers, 1-33 (2016).
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- 4) 電気を作る化学, 電気を使う化学, 「化学研究最前線 土佐で夢追う研究者たち」, 上田忠治, 高知大学化学系教員編, 飛鳥出版室, 64-70 (2015).
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(c) 特許

- 1) 上田忠治, 奥村卓史, 田中由季乃, 赤瀬早紀, 島村智子, 受田浩之, 抗酸化力の評価方法と抗酸化力評価装置, 特願 2014-166006

(d) 報告書・その他

- 3) "第10回新産業創出セミナー", 上田忠治, 化学と工業, **65**, 963 (2012)
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(e) 学位論文

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(e) 外部資金獲得実績

<科学研究費補助金>

- 7) ポリオキソメタレート錯体とイオン性液体を用いたグリーンな資源からのエネルギー創出 1. 特別研究員奨励費 (代表), H28-H29年度, 総額 2,300 千円

- 6) 硫酸イオンを含む新規多機能性金属酸化物クラスターの合成と機能発現メカニズムの解明, 基盤研究 C (代表), H25-H28 年度, 総額 4,000 千円
- 5) 有機ハロゲン化物の電気化学的高感度検出法の開発, 基盤研究 C (代表), H20-H23 年度, 総額 3,900 千円
- 4) 電気分析化学的アプローチによる生体内微量元素の生理活性作用発現機構の解明, 若手研究 B (代表), H15-18 年度, 総額 3,700 千円
- 3) 環境志向型光学活性ハイブリッド錯体の多機能発現メカニズムの解明と応用, 基盤研究 C (分担), H23-H25 年度, 総額 3,900 千円
- 2) 環境志向型多機能ハイブリッド錯体の機能発現メカニズムの解明と応用, 基盤研究 C (分担), H20-H23 年度, 総額 3,700 千円
- 1) 超高圧反応を基軸とする高効率官能基変換プロセスの開発, 特定領域研究 (公募研究) (分担), H19-20 年度, 総額 4,400 千円

<受託研究>

- 3) 食品および飲料類の簡便かつ安価な抗酸化力測定法の開発, 平成 26 年度高知県産学官連携産業創出研究推進事業 (育成研究支援) (高知県), H26 年度, 総額 1360 千円 (間接経費 125 千円)
- 2) 簡便な抗酸化力評価用の電気化学センサー開発に関する研究, A-STEP FS ステージ 探索タイプ (JST) (代表), H24-H25 年度, 総額 1,300 千円
- 1) 新規マイクロ波高活性化固体触媒の開発と、海藻バイオマスからのラムノース製造への応用, A-STEP FS ステージ 探索タイプ (JST) (分担), H24-H25 年度, 総額 1,300 千円

<共同研究>

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<奨学寄付金>

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