

令和7年6月26日

業績調書

氏名 藤森厚裕

I. 研究業績

1. 学位論文

論文名 “Formation, Structure, and Function of the Organized Molecular Films for Fluorinated Amphiphiles with Vinyl Group and Their Comb Polymers with Various Chain Lengths.” 博士（理学）（埼玉大学）

主査・中原 弘雄，副査・田隅 三生，野平 博之，中林 誠一郎
取得年月日 平成14年3月25日

2. 研究論文(292報)

●原著論文221報、プロシーディングス12報、解説・総説・記事35報、著書24件

- 2-1. 研究論文A[学術雑誌論文(レフリー付き論文)](corresponding authorに*を記載)
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26. 「櫛型高分子化合物の組織分子膜中における構造制御とその評価 / Structural control of organized molecular films for comb polymers and its structural estimation」

藤森 厚裕、舛屋 謙介、増子 徹、伊藤 英輔、原 正彦、金井 要、大内 幸雄、関 一彦、中原 弘雄

第 16 回 日本 MRS 学術シンポジウム(招待講演), 日本大学駿河台キャンパス 2005 年 12 月

27. 「組織分子膜の手法による両親媒性ジアセチレン誘導体の光重合と NEXAFS 分光法による構造評価」

藤森 厚裕

第1回 東北地区活性化若手セミナー(招待講演), 秋田大学乳頭ロッジ、2004年3月

II. 知財・成果有体物 <特許は登録済みのもの。成果有体物は供与実績のあるもの>

1. 発明の名称：有機化ベントナイトの製造方法及びこれにより得られる有機化ベントナイト
発明者・出願人：黒坂恵一，窪田宗弘，藤森厚裕 (特願 2009-214958, 特開 2011-063475) 出願日 2009.09.16(特許第 5718559 号)
2. 発明の名称：タンパク質-疎水性有機化剤吸着粘土複合体及びその製造方法
発明者・出願人：黒坂恵一，窪田宗弘，藤森厚裕 (特願 2011-260225, 特開 2013-112567) 出願日 2011.11.29
3. 発明の名称：表面修飾ナノダイヤモンドおよびナノダイヤモンド分散液
発明者・出願人：梅本浩一，久米篤史，伊藤久義，藤森厚裕 (特願 2016-009668, 特開 2017-12848) 出願日 2016.1.28(特許第 6802967 号)
4. 発明の名称：表面修飾ナノダイヤモンド、前記表面修飾ナノダイヤモンドを含む分散液及び複合材料
発明者・出願人：梅本浩一，久米篤史，伊藤久義，藤森厚裕 (特願 2016-162469, 特開 2018-03.71) 出願日 2016.8.23(特許第 6755020 号)
5. 発明の名称：表面修飾ナノダイヤモンド、前記表面修飾ナノダイヤモンドを含む分散液、及び複合材料
発明者・出願人：梅本浩一，久米篤史，城大輔，伊藤久義，藤森厚裕 (特願 2017-035673, 特開 2018-140893) 出願日 2017.2.28(特許第 6800445 号)
6. 発明の名称：潤滑油組成物
発明者・出願人：中島達貴，設楽裕治，多田亜喜良，山本拓海，藤森厚裕 (特願 2019-085422, 特開 2020-180248) 出願日 2019.4.26
7. 発明の名称：潤滑油組成物
発明者・出願人：中島達貴，設楽裕治，多田亜喜良，山本拓海，藤森厚裕 (特願 2019-085425, 特開 2020-180249) 出願日 2019.4.26

III. 大学等における教育歴（非常勤講師等を含む）

(西暦) 2003年 4月 ~ 2011年 3月 (山形大学・助手(2007年より助教))

(担当科目：有機化学演習，物性工学演習，高分子工学演習，情報処理演習，物性工学実験，高分子工学実験，物性工学輪講，卒業研究，機能高分子特別演習(院・前期)，機能高分子特別実験(院・前期)，高分子固体構造特論(院・後期))

(西暦) 2011 4月 ~ 2024年 8月現在 (埼玉大学・准教授)

(担当科目：有機材料化学，工学入門セミナー，物理化学I，基礎化学II/無機化学I，構造解析II，工学基礎実験，機能材料工学実験I，応化実験I(無機化学系)，応化実験III(生命化学系)，機能材料工学概論，工学と社会(機能材料系)，工学と社会(応用化学系)，科学技術史，理工学と現代社会，界面組織体化学特論(院・前期)，機能材料工学総論(院・前期)，機能高分子構造特論(院・前期)，機能高分子化学特論(院・前期)，応用化学輪講I, II(院・前期)，応用化学特論III(院・前期)，ナノ構造制御工学特別輪講I~IV(院・前期)，機能表面科学特論(院・後期))

IV. 社会的業績

(※学会等での受賞歴)

1. 埼玉大学工学部 ベストレクチャー賞 (単独: 講義名「有機材料化学」2024/10/25)
2. 第 28 回エラストマー討論会優秀発表賞(連名: 森田啓介，赤坂修一，浅井茂雄，藤森厚裕「無機フィラー充填光重合性高分子材料の EDH 流体を用いた構造形成への電場条件の検討」, 2017/11/30).
3. 第 18 回 CERI 最優秀発表論文賞(連名: 赤坂修一，森田啓介，藤森厚裕，浅井茂雄「EHD 対流を用いたナノダイヤネットワーク形成における作成条件の影響」, 2016/05/19)
4. マツダ財団 2014 年度研究助成 選考委員奨励賞(単独: 「350 °C 耐熱！初めて『結晶』で創る新奇フレキシブル透明プラスチックフィルムの開発に資する、高分子透明化技術の新提案」2014/09/26)

5. 日本化学会 コロイドおよび界面化学部会 平成 23 年度科学奨励賞 (単独: 「機能性原子団を含む
櫛型共重合体組織化膜の分子配列制御」, 2011/09/08)
6. 第 46 回熱測定討論会三翠賞 (連名: 乳井樹, 藤森厚裕, 「"結晶性"フッ素系共重合体透明フィル
ムの延伸に伴うラメラ配列変化」, 2010/09/28)
7. 2008 年度高分子研究奨励賞 (単独: 「フッ化炭素鎖を含む結晶性高分子の構造制御とその評価」,
2009/05/28)
8. 2007 年日本 MRS 若手奨励研究賞 (単独: 2007/12/09)
9. 第 55 回コロイドおよび界面化学討論会 ポスター賞 (単独: 2002/09/13).
10. Best poster award on the International Conference on Colloid and Surface Science, the 25th
Anniversary Division of Colloid and Surface Chemistry (単独: 2000/11/08).

V. 学会等における活動状況

1. Okinawa Colloids 2026 副実行委員長(予定)
2. 第76回 コロイドおよび界面化学討論会 副実行委員長(2025)
3. 日本化学会 関東支部 埼玉地区幹事(2025-2026)
4. Member of organizing committee of 19th International Conference on Organized Molecular
Films (LB19, ICOM-19), Tokyo, Japan, August 2025.
5. 日本化学会 第95, 98, 100, 101, 103, 104春季年会プログラム編成委員(2015, 2018, 2020,
2021, 2023, 2024, コロイド・界面化学)
6. 第68, 69, 71-75回 コロイドおよび界面化学討論会実行委員(2017, 2018, 2020-2024年,
※2021-2024年: 分子膜セッション代表オーガナイザー)
7. 第72回 高分子学会年次大会(2023) 実行委員
8. Okinawa Colloids 2019 Membrane/LB film Session オーガナイザー (2018-2019年)
9. 高分子学会 平成25, 26年度 代議委員
10. アジア圏国際会議 IUMRS-ICA2014(2015.8.24-30)"Molecular Thin Films"(B-10 セッション)連絡
(代表代理)オーガナイザー(2014年 8月-2015年 9月)
11. 日本化学会 コロイドおよび界面化学部会 部会誌 C & I Commun. 編集委員(2013年 5月~2019
年 3月)
12. 第 23, 25 回日本 MRS 年次大会「分子性薄膜の作製・評価・応用」セッション代表オーガナイ
ザー(2013年 4月~2016年 3月)
13. 日本学術振興会 フッ素化学第 155 委員会 委員(2013 年~2019 年)
14. 日本学術振興会 繊維・高分子機能加工第 120 委員会 庶務幹事(2012 年 4月~2016 年 3月)
15. 日本化学会 コロイドおよび界面化学部会 若手 W.G. (2011 年 4月~2012 年 3月)
16. 平成 24 年度繊維学会年次大会 副実行委員長
17. 第 18~21 回日本 MRS 学術シンポジウム「有機超薄膜の作製・評価・応用」セッションチェア
(2007 年 4月~2012 年 3月)
18. 繊維学会 平成 22 年度繊維学会夏季セミナー実行委員(2010 年 8月)
19. 日本熱測定学会 広報委員(2009 年 10 月~2011 年 9 月)
20. 繊維学会 平成 22 年度繊維学会年次大会 実行委員兼セッションオーガナイザー(2009 年 10 月
~2010 年 6 月)
21. 第 10 回アジア国際繊維会議 実行委員(2009 年 9 月)
22. 繊維学会 平成 21 年度繊維学会夏季セミナー実行委員(2009 年 8 月)
23. 日本熱測定学会 日本熱測定学会 2008・2009 年度委員(2008 年 4月~2010 年 3月)
24. 日本学術振興会 繊維・高分子機能加工第 120 委員会 委員(2007 年 4月~2016 年 3月)
25. 日本学術振興会 繊維・高分子機能加工第 120 委員会 平成 19 年度(夏季)世話人(2007 年 4 月
~2008 年 3 月)
26. 第 54 回 高分子討論会実行委員(2005 年 9 月)

※所属学会: 日本化学会(および、コロイドおよび界面化学部会), 高分子学会, 繊維学会, プラ
スチック成形加工学会

VI. 外部資金取得状況(36件)

a. 競争的資金 (25 件)

1. 令和 6 年度日本学術振興会科学研究費補助金 基盤研究 C 「ハイパープランチユニットを有する網目状共重合体の形状記憶特性制御と界面膜創出」(研究代表者, 350 万円/3 年)
2. 2023 年度 コーセーコスメトロジー研究財団 助成「界面活性剤修飾ナノダイヤモンドの集積・積層化による構造色発現と、抗菌性チキソトロピー塗膜の開発」(研究代表者, 200 万円/年)
3. 2022 年度 池谷科学技術振興財団 助成「5wt%未満のカーボンナノチューブによって創製される「漆黒」の高分子系ナノコンポジットによる材料革新」(研究代表者, 150 万円/年)
4. 令和 3 年度日本学術振興会科学研究費補助金 基盤研究 C 「含環状部位ポリグアナミン誘導体界面膜によるレアース捕集とその脱離回収技術の確立」(研究代表者, 330 万円/3 年)
5. 公益信託 伊藤徳三ひまし油基金 2021 年度研究助成「ひまし油由来 12-ヒドロキシステアリン酸誘導体を用いたチキソトロピー性添加剤分子の性能向上とキラリティー制御の相関性の解明」(研究代表者, 100 万円/1 年)
6. 第 38 回(令和 2 年度)公益財団法人大シオ科学振興財団研究助成「金属材料における LPSO 構造/ミルフィーユ構造による『革新的の材料物性増強理論』の高分子材への適用」(研究代表者, 100 万円/1 年)
7. 平成 31 年度文部科学省科学研究費補助金 新学術領域・ミルフィーユ構造の材料科学 公募研究 A04 「硬軟交互粒子積層によるナノ・ミルフィーユ創出とその物性増強起源の解明」(研究代表者, 530 万円/2 年)
8. 平成 30 年度 小笠原科学技術振興財団一般研究助成「結晶性フッ素樹脂に対する機能増強技術の新提案—革新的の表面改質による無機微粒子ナノ複合化—」(研究代表者, 160 万円/15 ヶ月)
9. 平成 29 年度日本学術振興会科学研究費補助金 基盤研究 C 「350 °C 耐え抜く有機修飾ナノダイヤモンド-結晶性透明樹脂へのナノ分散-」(研究代表者, 370 万円/3 年)
10. 平成 28 年度 日本科学協会 海外発表促進助成(第 2 期)「The Role of Modifying Molecular Chains in the Formation of Organized Molecular Films of Organo-modified Inorganic Particles (16th International Conference on Organized Molecular Films (LB16, ICOMF-16), Helsinki, Finland, July, 2016.)」(研究代表者, 24 万 8 千円)
11. 平成 26 年度 マツダ財団研究助成「350 °C 耐熱!初めて『結晶』で創る新奇フレキシブル透明プラスチックフィルムの開発に資する、高分子透明化技術の新提案」(研究代表者, 170 万円/1 年)
※選考委員奨励賞(含副賞 50 万円)
12. 平成 25 年度 (独)科学技術振興機構 第 1 回 研究成果最適展開支援プログラム(A-STEP)探索タイプ「新規"結晶性"フッ素樹脂/クレイナノコンポジットによる高耐熱型フレキシブル透明フィルムの開発と、そのガスバリア材への展開」(研究代表者, 170 万円/1 年)
13. 平成 25 年度日本学術振興会科学研究費補助金 基盤研究 C 「高修飾率有機化アルミニシリケートによる耐熱型"結晶性"透明ナノハイブリッドの創製」(研究代表者, 380 万円/3 年)
14. 平成 23 年度日本学術振興会科学研究費補助金 若手研究 B 「新規ポリマーナノスフィアを用いた蛍光発光性・積層粒子層状組織体の形成」(研究代表者, 330 万円/2 年)
15. 平成 23 年度文部科学省科学研究費補助金 新学術領域・ソフトインターフェイスの分子科学 公募研究 A02 「ポリマーナノスフィア積層組織化膜の X 線利用精密分子配向解析と機能化」(研究代表者, 290 万円/2 年)
16. 平成 22 年度(財)泉科学技術振興財団 研究助成「山形県産!!脱石油由来天然資源粘土ナノフィルムを用いた高分子代替材料の創製」(研究代表者, 100 万円/1 年)
17. 平成 21 年度 (財)東電記念科学技術研究所 研究助成「山形発!!非石油国産原料を用いた新規導電性有機/無機ハイブリッド超薄膜の創製」(研究代表者, 100 万円/1 年)
18. 平成 20 年度文部科学省科学研究費補助金 若手研究 B 「耐熱性・高光伝送効率・結晶性・プラスチック光ファイバー、および透明フィルムの構築」(研究代表者, 330 万円/2 年)
19. 平成 20 年度(独)科学技術振興機構 地域イノベーション創出総合支援事業・重点地域研究開発推進プログラム シーズ発掘試験課題 「高温下での光導波路材を目指した結晶性フッ素樹脂透明フィルムの開発」(研究代表者, 200 万円/年)
20. 平成 19 年度(独)科学技術振興機構 地域イノベーション創出総合支援事業・重点地域研究開発推進プログラム シーズ発掘試験課題 「高光伝送効率"結晶性"テフロン系プラスチック光ファイバーの構築」(研究代表者, 199 万円/年)
21. 財団法人矢崎科学技術振興財団 平成 19 年度奨励研究助成課題「高光伝送効率"結晶性"テフロン系プラスチック光ファイバーの構築」(研究代表者, 100 万円/年)
22. 財団法人日本科学協会平成 17 年度笹川研究助成課題「緑色のポリジアセチン超薄膜形成がもたらす色相転移機構解明とその制御」(研究代表者, 60 万円/年)

23. 向科学技術振興財団平成 16 年度研究助成課題「フッ素化樹型高分子を含む組織分子膜中の相分離構造に基づく新規ナノパターニング」(研究代表者, 150 万円/年)
24. Doctoral fellowship researcher of Japan Society for the Promotion of Science (研究代表者, 1/4/2001 ~ 31/3/2003, 200 万円/2 年).
25. 平成 13 年度埼玉大学大学院重点設備費課題「*in situ* in-plane X 線回折システムの構築」(研究分担者, 1,000 万円/年)

b. 企業からの奨学寄付金・共同研究費 (12 件)

1. 株式会社アルビオンより奨学寄附金(研究助成)「ナノ粒子の積層化技術を用いたマイクアップ製剤への応用検討」50 万円/1 年(研究代表者)
2. 株式会社タイテックスジャパンより奨学寄附金(研究助成)「ナノダイヤモンド含有高分子系制振材料の研究」50 万円/6 ヶ月(研究代表者)
3. JXTG エネルギー株式会社より共同研究費「新規潤滑油剤の機能向上に関する研究」255 万円/28 ヶ月(研究代表者)
4. 株式会社ダイセルより奨学寄付金(研究助成)「ナノダイヤモンドの表面修飾に関する研究」300 万円/30 ヶ月(研究代表者)
5. 楠本化成株式会社より奨学寄付金(研究助成)「ビスマトイド/クレイのハイブリッド化の研究」450 万円/54 ヶ月(研究代表者)
6. ダイキン工業株式会社より共同研究費「VDF 系フッ素樹脂フィルムの構造解析」600 万円/3 年間(研究代表者)
7. 旭硝子株式会社より共同研究費「ポリマー構造制御による新機能創出」100 万円/15 ヶ月(研究代表者)
8. 日立化成工業株式会社より奨学寄付金「X 線利用液晶性エポキシ硬化物の分子配向性の解析」50 万円/6 ヶ月(共同研究費・研究代表者)
9. クニミネ株式会社より奨学寄附金・共同研究費「新規有機化処理クレイの構造解析に関する研究」50 万円/年(5 年間研究代表者)
10. 株式会社潤工社より奨学寄附金「フッ素系ポリマー加工品の構造解析に関する研究」120 万円/年(計 2 年間, 研究代表者)
11. アキレス株式会社より奨学寄附金「導電性高分子の構造解析に関する研究」50 万円/6 ヶ月(計 3 年間, 研究代表者)
12. 三井・デュポンフロロケミカル株式会社より奨学寄附金「PFA の結晶構造及び Morphology 解析研究」120 万円/年(計 5 年間, 研究代表者)

※国際会議発表

1. "Creation of interfacial films of organic / inorganic hybrid nanoparticles"
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 - 10. "Dependency of Nanodiamond Particle Size and Outermost-Surface Composition on Organo-Modification– Evaluation by Formation of Organized Molecular Films and Nano-Hybridization with Organic Polymers –"
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 - 11. "Novel network structure formed by EHD convection of nanodiamond in UV curing resin"
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 - 12. "The Role of Modifying Molecular Chains in the Formation of Organized Molecular Films of Organo-modified Inorganic Particles"
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 - 13. "New Proposal of Transparent Technology of "Crystalline" Polymer and Expansion into Its Nano-hybrid with Functional Filler"
Atsuhiro Fujimori
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 - 14. "The Role of Modifying Molecular Chains in the Formation of Organized Molecular Films of Organo-modified Nanodiamond. –Construction of a Highly-Ordered Low Defect Particle Layer, and Evaluation of Desorption Behavior of Organic Chains–"
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