

自我简介

吉庆敏 (Q•Ji), 女, 38 岁, 博士, 研究员。

• **主要履历与职位:** 2001 年 3 月 (中国) 南京理工大学《高分子材料》学科硕士毕业, 获工学硕士学位并于同年 9 月赴日本留学。2005 年 3 月从日本十所国立名校之一的筑波大学化学系博士毕业, 获理学博士学位。毕业后, 分别在日本两所国立研究机构: 即产业经济省下属的《产业技术综合研究所》和文部科学省下属的《物质•材料研究所》完成两届博士后研修, 为后来的科研和教学打下扎实的理论基础和研究技能。

2009 年 9 月至今, 由日本文部科学省物质•材料研究所正式聘任为“重大科学研究基金项目”(简称: MANA) 的研究员。

• **专业与特长: 高分子材料及纳米材料。**在本科和硕士研究生阶段所学专业均是《高分子材料及工程》学科。在读期间及毕业后, 曾完成多项有关功能高分子合成及应用, 高分子的加工改性等项目的基础研究和应用开发。其中, “水溶性阴(阳)离子型高聚物电介质”的研究成果在水处理和洗涤剂行业获得重要应用并实现产业化; “纳米粒子对聚合物性能的影响及加工过程的力化学反应”的研究成果分别获 1999 年度江苏省国防科委科技进步一等奖及 2000 年度江苏省科技进步三等奖。

在博士和博士后阶段, 所从事的专业为: **纳米材料的制备、结构控制和应用技术。**研究特色为: 采用近年来在新材料开发中创建出来的“分子组装”理论和技术, 合成和制备了各种功能化纳(微)米材料包括各种组成和结构的纳米管、纳米空心(或多孔)球、纳米膜或 LB 膜等。除研究其合成(制备)方法外, 还对结构控制及其对性能的影响等学术内容进行了有效的探索和创新。这些研究成果得到国际材料学界专家的认可。其中一篇代表性评论是在《Nature Materials》杂志上, 在纳米复合膜的制造方法和理论创建方面进行了全面评价和推崇 (highlighted)。(原文见: J. Am. Chem. Soc., 130, (2008)2376)。另一篇论文受到《NPG Asia Material》刊物的推崇。在国际材料科学方面上发表的论文 50 多篇, 所作的研究影响指数 (H-index) 为 20, 总引用数超过 1000。总之, 在纳米材料的研究方法和理论方面, 建立了自己的研究特色, 具有较好学术影响。

• **创新开发与合作:** 由于在纳米材料的基础理论和方法研究方面的影响, 引起了同行学术界如生物、医药界专家的关注, 由此发展了纳米材料与生物、能源、医药等的交叉学术研究, 以开发新一代材料。在研(或已完成)的合作单位和研究内容为: 日本东北大学多元物质科学研究所(锂电池材料, 在研), 澳大利亚昆士兰大学生物工程与纳米技术研究所(多孔材料感应器, 已完成), 墨尔本大学化学和生物分子工程科(胶囊结构的制成和生物应用, 在研)等。这些研究项目, 具有重大的应用前景。

• **科、教能力:** 在日本十多年的留学和工作过程中, 无论是本专业的学科理论还是攻关研究能力, 均为今后的进一步发展打下坚实的基础。尤其是所在的大学和国立研究所拥有世界一流的实验测试设备和优良的研究条件, 加上严格的管理制度, 严谨的科学作风, 使我获得了良好的训练, 受益匪浅。除了较强的研究能力外, 研究领域也比较广泛, 尤其在脂质分子的组装, 层层膜组装, 气体探测, 药物释放等学术领域有较好的研究积累。在实验技能方面, 熟练地掌握了 NMR, FT-IR, Raman, AFM 等 20 多种先进仪器设备的原理和使用方法。在语言能力方面, 有较强的英语、日语表达和应用能力, 可使用英语和日语进行学术交流, 也可用外语进行教学(如上课)。在教学方面, 在研究所工作期间, 为有合作关系的日本大学如东京理科大学、东北大学, 有合作关系的外国大学如莫斯科大学(俄)、昆士兰大学(澳)、墨尔本大学(澳)等大学派遣的博士和硕士研究生指导其研究与学位论文, 其中除 2 人已毕业外, 仍有 2 名博士生、1 名硕士生在读, 表明具备了从事本学科领域的专业教学和指导研究生的能力。

• **愿望与企盼:** 在国外经历了十多年的留学和工作磨练, 基本完成了“求知”过程, 理应回报祖国。况且人到中年, 回国服务的心愿时时浮现。希望在国内能找到一所适合我的专业发展的大学或研究单位。可以从事基础理论研究, 新材料开发, 也可以从事教学或新学科创建工作等。

个人简历

基本信息			
	姓名	吉庆敏	
	性别·婚姻	女（已婚）	
	出生日、地	05/11/1974 · 南京	
	学位·职位	博士·研究员	
	政治面貌	中共党员	
	外语及能力	英语和日语，熟练	
	联系地址	WPI 研究中心 MANA 超分子组，物质·材料研究所，筑波市并木 1-1，日本国 305-0032	
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教育背景			
学位名称	大学名称	就学期间	学 科
博士	日本筑波大学	03/2005 ~ 04/2002	自然科学与先端应用科学
硕士	南京理工大学	03/2001~ 09/1998	高分子材料
本科	南京理工大学	07/1997~ 09/1993	高分子材料与工程
工作履历			
工作单位	工作地点	职 位	工作期间
文部科学省 物质材料研究所	日本筑波市	MANA 研究员	现在 ~ 09/2011
同上	同上	日本学术振兴会 外国研究员	09/2011 ~ 09/2009
同上	同上	博士后	09/2009 ~ 06/2006

通产省产业技术综合研究所	日本筑波市	博士后	05/2006 ~ 04/2005
上海宏力半导体制造有限公司	中国上海市	工程师	07/2001 ~ 04/2001
兴得复合材料研究所	中国南京市	技术员	08/1998 ~ 08/1997

主要学术研究成果

期 间	研 究 内 容
现在 ~ 09/2011	<ul style="list-style-type: none"> ▪ C₆₀ 聚集体的制备和在生物学上的应用 ▪ 新型二氧化硅及有机复合体结构的制备和其在生物学及催化上的应用
09/2011 ~ 09/2009	<ul style="list-style-type: none"> ▪ 二氧化硅空心球的制备和作为药物载体的性能研究 ▪ 石墨烯和离子液体的复合膜制备和其在气体感应上的应用
09/2009 ~ 06/2006	<ul style="list-style-type: none"> ▪ 无机结构体的层层组装 ▪ 层层组装膜的吸附和释放特性 ▪ 金颗粒的集合体结构控制 ▪ 复合量子棒的合成和其聚集体结构控制 ▪ 分子识别对 LB 膜 (Langmuir-Blodgett film) 结构的影响
05/2006 ~ 04/2005	<ul style="list-style-type: none"> ▪ 脂质自组装结构的无机及有机/无机复合结构转写
03/2005 ~ 03/2002	<ul style="list-style-type: none"> ▪ 脂质低聚物的合成 ▪ 两亲性脂质物的自组装结构制成和控制 ▪ 水溶液中有机自组装结构向过渡金属氧化物结构的转写
03/2001 ~ 09/1998	<ul style="list-style-type: none"> ▪ 纳米粒子对聚合物物理性能的影响 ▪ 聚合物改性对其物理性能的影响
08/1998 ~ 08/1997	<ul style="list-style-type: none"> ▪ 水溶性高分子电解质的合成及应用

合作单位和合作研究内容

- 物质材料研究所 (日本), 生物系统控制研究组。(生物材料的创制和应用)
- 东京理科大学 (日本), 理工学部工业化学科。(C₆₀ 聚集体性能)
- 东北大学 (日本), 多元物质科学研究所。(锂电池材料的开发)
- 昆士兰大学 (澳洲), 生物工程与纳米技术研究所。(多孔材料在感应器上的应用)
- 墨尔本大学 (澳洲), 化学和生物分子工程科。(胶囊结构的制成和生物应用)

仪器实验技能

- 核磁共振仪 NMR, 傅氏转换红外线光谱分析仪 FT-IR, 拉曼光谱仪 Raman, 紫外可见吸收光谱仪 UV-Vis, 荧光光谱仪, 圆二色谱仪 CD, X 射线衍射仪 XRD
- 差示扫描量热仪 DSC, 热重分析/同步差热分析仪 TGA/TDTA
- 扫描电子显微镜 SEM, 透射电镜 TEM, 光学显微镜, 原子力显微镜 AFM
- N₂ 吸附/脱附仪
- 石英晶体微天平仪 QCM
- 电气泳动

发表的主要研究论文

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| (1) | S. Ishihara, N Iyi, Y Tsujimoto, S Tominaka, Y Matsushita, Venkata Krishnan, M. Akada, J. Labuta, K. Deguchi, S. Ohki, M. Tansho, Tadashi Shimizu, Q. Ji , Y. Yamauchi, J. P. Hill, H. Abe, and K. Ariga “Hydrogen-Bond-Driven ‘Homogeneous Intercalation’ for Rapid, Reversible, and Ultra-Precise Actuation of Layered Clay Nanosheets”, <i>Chem. Commun.</i> Accepted. |
| (2) | M. Li, S. Ishihara, K. Ohkubo, M. Liao, Q. Ji , C. Gu, Y. Pan, X. Jiang, M. Akada, J. P. Hill, T. Nakanishi, Y. Ma, Y. Yamauchi, S. Fukuzumi and K. Ariga, “Electrochemical Synthesis of Transparent, Amorphous, C ₆₀ -Rich, Photoactive, and Low-Doped Film with an Interconnected Structure”, <i>Small</i> , DOI: 10.1002/sml.201202680. (<i>Impact Factor</i> 7.3) |
| (3) | Q. Ji , S. Acharya, G. J. Richards, S. Zhang, J. Vieaud, J. P. Hill, and K. Ariga, “Alkyl Imidazolium Ionic-Liquid-Mediated Formation of Gold Particle Superstructures”, <i>Langmuir</i> , DOI: 10.1021/la304503j (<i>Impact Factor</i> 4.1) |
| (4) | K. Ariga, Q. Ji , T. Mori, M. Naito, Y. Yamauchi, H. Abe and J. P. Hill, “Enzyme nanoarchitectonics: organization and device application” <i>Chem. Soc. Rev.</i> , DOI: 10.1039/C2CS35475F. (<i>Impact Factor</i> 28) |
| (5) | T. Mori, K. Sakakibara, H. Endo, M. Akada, K. Okamoto, A. Shundo, M. V. Lee, Q. Ji , T. Fujisawa, K. Oka, M. Matsumoto, H. Sakai, M. Abe, J. P. Hill, and K. Ariga, “Langmuir Nanoarchitectonics: One-Touch Fabrication of Regular-Size Nanodisks at the Air-Water Interface”, <i>Langmuir</i> , DOI: 10.1021/la304293z (<i>Impact Factor</i> 4.1) |
| (6) | J. P. Hill, Y. Xie, M. Akada, Y. Wakayama, L. K. Shrestha, Q. Ji , and K. Ariga, “Controlling Porphyrin Nanoarchitectures at Solid Interfaces”, <i>Langmuir</i> , |

	DOI: 10.1021/la304553m. (<i>Impact Factor 4.1</i>)
(7)	Q. Ji , J. P. Hill and K. Ariga, "Shell-adjustable hollow 'soft' silica spheres as a support for gold nanoparticles", <i>J. Mater. Chem. A</i> , 1, (2013) 3600.
(8)	G. P. Mane, D. S. Dhawale, C. Anand, K. Ariga, Q. Ji , M. A. Wahab, T. Mori and A. Vinu, Selective sensing performance of mesoporous carbon nitride with a highly ordered porous structure prepared from 3-amino-1,2,4-triazine, <i>J. Mater. Chem. A</i> , 1, (2013) 2913.
(9)	L. K. Shrestha , M. Sathish , J. P. Hill , K. Miyazawa , T. Tsuruoka , N. M. Sanchez-Ballester , I. Honma , Q. Ji and K. Ariga, " Alcohol-induced decomposition of Olmstead's crystalline Ag(I)-fullerene heteronanostructure yields 'bucky cubes'", <i>J. Mater. Chem. C</i> , 1, (2013) 1174.
(10)	M. Li, S. Ishihara, Q. Ji , Misaho Akada, J. P. Hill and K. Ariga, "Paradigm shift from self-assembly to commanded assembly of functional materials: recent examples in porphyrin/fullerene supramolecular systems", <i>Sci. Technol. Adv. Mater.</i> , 13, (2012) 053001. (<i>Impact Factor 3.5</i>)
(11)	Q. Ji , T. Yamazaki, N. Hanagata, M. V. Lee, J. P. Hill, and K. Ariga, "Silica-based Gene Reverse Transfection: Upright Nanosheet Network for Promoted DNA Delivery to Cell", <i>Chem. Commun.</i> , (2012) 8496. (<i>Impact Factor 5.7</i>)
(12)	Y. Manoharan, Q. Ji , T. Yamazaki, C. Shanmugavel, S. Chen, S. Ganesan, J. P. Hill, K. Ariga, N. Hanagata, "Effect of molecular weight of polyethyleneimine for loading of CpG oligodeoxynucleotides onto flake-shell silica nanoparticles on Toll-like receptor 9-mediated interferon- α induction", <i>Int. J. Nanomedicine</i> , 7 (2012) 3625. (<i>Impact Factor 4.9</i>)
(13)	Q. Ji , C. Guo, X. Yu, C. J. Ochs, J. P. Hill, F. Caruso, H. Nakazawa, and K. Ariga, "Flake-Shell Capsules: Adjustable Inorganic Structures", <i>Small</i> , 8, (2012) 2345 (<i>Impact Factor 7.3</i>)
(14)	K. Ariga, Q. Ji , J. P. Hill, Y. Bando, and M. Aono, "Forming Nanomaterials as Layered Functional Structures towards Materials Nanoarchitectonics", <i>NPG Asia Mater.</i> 4, (2012) e17.
(15)	G. P. Mane, S. N. Talapaneni, C. Anand, S. Varghese, H. Iwai, Q. Ji , K. Ariga, T. Mori, and A. Vinu, "Preparation of Highly Ordered Nitrogen Containing Mesoporous Carbon from Gelatin Biomolecule and its Excellent Sensing Performance to Acetic Acid", <i>Adv. Funct. Mater.</i> , 22, (2012) 3596. (<i>Impact Factor 8.4</i>)
(16)	M. Li, S. Ishihara, Q. Ji , Y. Ma, J. P. Hill, and K. Ariga, "Electrochemical

	Coupling Layer-by-layer (ECC-LbL) Assembly in Patterning Mode”, <i>Chem. Lett.</i> 41, (2012) 383. (<i>Impact Factor 1.4</i>)
(17)	K Ariga, <u>Q. Ji</u> , G. J. Richards, and J. P. Hill, “Soft Capsules, Hard Capsules, and Hybrid Capsules”, <i>Soft Mater.</i> 10, (2012) 387. (<i>Impact Factor 4.3</i>)
(18)	M. Ramanathan, M. Kilbey, <u>Q. Ji</u> , J. P. Hill and K. Ariga, “Materials Self-assembly and Fabrication in Confined Spaces”, <i>J. Mater. Chem.</i> , 22, (2012), 10389. (<i>Impact Factor 5.9</i>)
(19)	M. Hu, J. Reboul, S. Furukawa, N. L. Torad, <u>Q. Ji</u> , P. Srinivasu, K. Ariga, S. Kitagawa, and Y. Yamauchi, “Direct Carbonization of Al-Based Porous Coordination Polymer for Synthesis of Nanoporous Carbon”, <i>J. Am. Chem. Soc.</i> , 134, (2012) 2864. (<i>Impact Factor 9.9</i>)
(20)	A. Vinu, <u>Q. Ji</u> , J. P. Hill and K. Ariga, “Mesoporous Nanoarchitectonics” In Manipulation of Nanoscale Materials: An Introduction to Nanoarchitectonics, Editor: Katsuhiko Ariga, Publisher: <i>Royal Society of Chemistry</i> (2012) in press.
(21)	K. Ariga, <u>Q. Ji</u> and J. P. Hill, “Novel Multilayer Thin Films: Hierarchic Layer-by-Layer (Hi-LbL) Assemblies” in Multilayer Thin Films: Sequential Assembly of Nanocomposite Materials, 2nd Edition, Editors: Gero Decher and Joseph Schlenoff, Publisher: <i>Wiley-VCH</i> (2012) in press.
(22)	K. Ariga, <u>Q. Ji</u> , M. McShane, Y. Lvov, A. Vinu and J. P. Hill, “Inorganic Nanoarchitectonics for Biological Applications”, <i>Chem. Mater.</i> , 24, (2012) 728. (<i>Impact Factor 7.2</i>)
(23)	K. Ariga, A. Vinu, Y. Yamauchi, <u>Q. Ji</u> , and J. P. Hill, “Nanoarchitectonics for Mesoporous Materials”, <i>Bull. Chem. Soc. Jap.</i> , 85, (2012) 1. (<i>Impact Factor 1.6</i>)
(24)	T. Mori, K. Sakakibara, H. Endo, M. Akada, K. Okamoto, A. Shundo, M. V. Lee, <u>Q. Ji</u> , T. Fujisawa, K. Oka, M. Matsumoto, H. Sakai, M. Abe, J. P. Hill and K. Ariga, “One-Touch Nanofabrication of Regular-Sized Disks through Interfacial Dewetting and Weak Molecular Interaction”, <i>Chem. Lett.</i> , 41 (2012) 170. (<i>Impact Factor 1.4</i>)
(25)	K. Ariga, J. P. Hill, and <u>Q. Ji</u> , “Organic-Inorganic Supramolecular Materials.” in Supramolecular Soft Matter: Applications in Materials and Organic Electronics, Editor: Takashi Nakanishi, Publisher: <i>John Wiley & Sons, Inc.</i> , Hoboken (2011), Ch. 3, 43-55.
(26)	K. Ariga, M. McShane, Y. M. Lvov, <u>Q. Ji</u> , and J. P. Hill, “Layer-by-Layer Assembly for Drug Delivery and Related Applications”, <i>Expert Opin. Drug</i>

	<i>Deliv.</i> , 8, (2011) 633. (<i>Impact Factor</i> 4.4)
(27)	K. Ariga, Y. M. Lvov, K. Kawakami, Q. Ji , and J. P. Hill, "Layer-by-Layer Self-Assembled Shells for Drug Delivery", <i>Adv. Drug Deliv. Rev.</i> , 63, (2011) 762. (<i>Impact Factor</i> 13.5)
(28)	K. Ariga, and Q. Ji , "Layer-by-Layer Assembly", Encyclopedia of Nanoscience and Nanotechnology, 2nd Edition. Editor: H. S. Nalwa, Publisher: <i>American Scientific Publishers</i> , Los Angeles, (2011), Volume 15, 383-411.
(29)	A. H. Khan, Q. Ji , K. Ariga, U. Thupakula, and S. Acharya, "Size controlled ultranarrow PbS nanorods: spectroscopy and robust stability", <i>J. Mater. Chem.</i> , 21, (2011) 5671. (<i>Impact Factor</i> 5.9)
(30)	R. Charvet, K. Ariga, J. P. Hill, Q. Ji , A. H. Khan, and S. Acharya "Large scale assembly of ordered donor–acceptor heterojunction molecular wires using the Langmuir–Blodgett technique", <i>Chem. Commun.</i> , 47, (2011) 6825. (<i>Impact Factor</i> 5.7)
(31)	A. H. Khan, Q. Ji , K. Ariga, B. Das, D. D. Sarma, and S. Acharya, "Synthesis and Metallic Probe Induced Conductance of Au Tipped Ultranarrow PbS Rods", <i>Chem. Commun.</i> , 47, (2011) 8421. (<i>Impact Factor</i> 5.7)
(32)	Y. Xie, M. Akada, J. P. Hill, Q. Ji , R. Charvet, and K. Ariga, "Real time self-assembly and reassembly of molecular nanowires of trigeminal amphiphile porphyrins", <i>Chem. Commun.</i> , 47, (2011) 2285. (<i>Impact Factor</i> 5.7)
(33)	M. Mashimo, Q. Ji , S. Ishihara, H. Sakai, M. Abe, J. P. Hill, and K. Ariga, "Hierarchic template approach for synthesis of silica nanocapsules with tuned shell thickness", <i>Chem. Lett.</i> , 40, (2011) 840. (<i>Impact Factor</i> 1.4)
(34)	X. Hu, Q. Ji , J. P. Hill, and K. Ariga, "Large-Scale Synthesis of WO _x –EDA Nanobelts and Their Application as Photoswitches", <i>Cryst. Eng. Comm.</i> , 13, (2011) 2237. (<i>Impact Factor</i> 4.0)
(35)	K. Ariga, Q. Ji , and J. P. Hill, "Enzyme-Encapsulated Layer-by-Layer Assemblies: Current Status and Challenges toward Ultimate Nanodevices", <i>Adv. Polym. Sci.</i> , 229, (2010) 51. (<i>Impact Factor</i> 6.7)
(36)	K. Ariga, Q. Ji , J. P. Hill and A. Vinu, "Supramolecular Materials from Inorganic Building Blocks", <i>J. Inorg. Organomet. Polym. Mater.</i> , 20, (2010) 1. (<i>Impact Factor</i> 1.4)
(37)	Q. Ji , I. Honma, S.-M. Paek, M. Akada, J. P. Hill, A. Vinu, and K. Ariga, "Layer-by-Layer Films of Graphene Sheet and Ionic Liquid for Highly Selective Gas Sensing", <i>Angew. Chem. Int. Ed.</i> , 49, (2010) 9737. (<i>Impact</i>

	<i>Factor 13.4) (Highlighted in NPG Asia Materials)</i>
(38)	S. Mandal, M. Sathish, G. Saravanan, K. K. R. Datta, Q. Ji , J. P. Hill, H. Abe, I. Honma, and K. Ariga, "Open-Mouthed Metallic Microcapsules: Exploring Performance Improvements at Agglomeration-Free Interiors", <i>J. Am. Chem. Soc.</i> , 132, (2010) 14415. (<i>Impact Factor 9.9</i>)
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