履歴書

2024 年 3 月 4 日現在

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年	月	学位	
2009	3	（称号名）博士（理学）	（授与大学等名称）大阪大学
		（学位論文題目）Quantum Electrodynamics of Excitons with Radiative Relaxation	
		（称号名）	（授与大学等名称）
		（学位論文題目）	
		（称号名）	（授与大学等名称）
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		（称号名）	（授与大学等名称）
		（学位論文題目）	

自 年	自 月	至 年	至 月	学歴
2004	4	2009	3	大阪大学 基礎工学研究科 物質創成専攻
2000	4	2004	3	大阪大学 基礎工学部 電子物理科学科
				以上

JREC-IN Portal 作成様式

自		至		学歴
年	月	年	月	

自		至		職歴
年	月	年	月	
2023	04	現在		横浜国立大学 大学院工学研究院 知的構造の創生部門 准教授
2023	04	現在		横浜国立大学 理工学部 数物・電子情報系学科 物理工学教育プログラム
2023	04	現在		横浜国立大学 大学院理工学府 数物・電子情報系理工学専攻 物理工学教育分野
2021	01	2023	03	京都大学 白眉センター 特定准教授
2021	01	2023	03	京都大学 大学院理学研究科 連携准教授
2019	12	2023	03	京都大学 未来を切り拓く量子情報ユニット 参画教員
2017	10	2021	03	科学技術振興機構 戦略的創造研究推進事業 さきがけ「量子の状態制御と機能化」領域 さきがけ研究者
2019	04	2020	12	京都大学 大学院理学研究科 特定講師（さきがけ）
2015	04	2019	03	大阪大学 博士課程教育リーディングプログラム インタラクティブ物質科学・カデットプログラム 特任講師（常勤）
2015	04	2019	03	大阪大学 大学院基礎工学研究科 物質創成専攻 招へい教員
2012	04	2015	03	日本学術振興会 特別研究員（ＰＤ）
2009	05	2012	03	パリ第７大学＆ＣＮＲＳ 博士研究員
2009	04	2009	04	大阪府立大学 電子物理工学分野 博士研究員（特定領域研究）
2007	04	2009	03	日本学術振興会 特別研究員（ＤＣ２）
2006	04	2007	03	独立行政法人 科学技術振興機構 研究補助員
2005	09	2005	10	独立行政法人 科学技術振興機構 研究補助員

所属学協会

日本物理学会

賞罰

2019年9月 Web of Science Top Peer Reviewer 2019, Top 1% of reviewers in Physics Motoaki BAMBA
2018年9月 Web of Science Publons Peer Review Awards 2018, Top 1% of reviewers in Physics Motoaki BAMBA
2018年2月 光科学技術研究振興財団 平成29年度 研究表彰【課題】光科学・光科学技術の向上に役立つ独創的な研究 超放射相転移を示す物理系の探索 馬場 基彰
2017年3月 日本物理学会 第11回 日本物理学会若手奨励賞（領域５：光物性） 無限に広がる光場と局在する物質の重ね合わせ状態 馬場 基彰
2017年3月 日本物理学会 第11回 日本物理学会若手奨励賞（領域１：原子分子・量子エレクトロニクス・放射線） 光と物質の超強結合が露わにする量子光学の未開拓領域 馬場 基彰
2011年2月 財団法人 井上科学振興財団 第27回 井上研究奨励賞 馬場基彰
2007年12月 光物性研究会 光物性研究会奨励賞 馬場基彰
2004年3月 楠本奨学会・大阪大学 楠本賞（基礎工学部 電子物理科学科） 馬場基彰

その他（特記事項・自己 PR 等）

Researchmap
https://researchmap.jp/read0141546

Scopus
https://www.scopus.com/authid/detail.uri?authorId=15520494900

Web of Science
https://www.webofscience.com/wos/author/record/327001

Google Scholar
https://scholar.google.com/citations?user=k9QHNV8AAAAJ

Motoaki BAMBA

Yokohama National University

Light-matter interaction
quantum optics
quantum electrodynamics
electromagnetism
phase transitions

	All	Since 2019
Citations	1498	997
h-index	17	14
i10-index	20	16

1 article not available | 11 articles available

Based on funding mandates

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Vacuum Bloch–Siegert shift in Landau polaritons with ultra-high cooperativity X Li, M Bamba, Q Zhang, S Fallahi, GC Gardner, W Gao, M Lou, ... Paperpile Nature Photonics	133	2018
Continuous transition between weak and ultrastrong coupling through exceptional points in carbon nanotube microcavity exciton–polaritonsW Gao, X Li, M Bamba, J Kono Paperpile Nature Photonics	125	2018
Observation of Dicke Cooperativity in Magnetic Interactions X Li, M Bamba, N Yuan, Q Zhang, Y Zhao, M Xiang, K Xu, Z Jin, W Ren, ... Paperpile Science 361 (6404), 794-797	123	2018
Polariton-generated intensity squeezing in semiconductor micropillars T Boulier, M Bamba, A Amo, C Adrados, A Lemaitre, E Galopin, I Sagnes, ... Paperpile Nature communications 5 (1), 3260	106	2014
Superradiant Phase Transition in a Superconducting Circuit in Thermal Equilibrium M Bamba, K Inomata, Y Nakamura Paperpile Physical Review Letters 117 (17), 173601	104	2016
Stability of polarizable materials against superradiant phase transitionM Bamba, T Ogawa Paperpile Physical Review A 90 (6), 063825	59	2014
Ultrastrong magnon–magnon coupling dominated by antiresonant interactions T Makihara, K Hayashida, GT Noe Ii, X Li, N Marquez Peraca, X Ma, Z Jin, ... Paperpile Nature communications 12 (1), 3115	56	2021
Recipe for the Hamiltonian of system-environment coupling applicable to the ultrastrong-light-matter-interaction regimeM Bamba, T Ogawa Paperpile Physical Review A 89 (2), 023817	49	2014
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System-environment coupling derived by Maxwell's boundary conditions from the weak to the ultrastrong light-matter-coupling regimeM Bamba, T Ogawa Paperpile Physical Review A 88 (1), 013814	37 *	2013
Polariton parametric oscillation in a single micropillar cavity L Ferrier, S Pigeon, E Wertz, M Bamba, P Senellart, I Sagnes, A Lemaître, ... Paperpile Applied Physics Letters 97 (3)	30	2010
Circuit configurations which may or may not show superradiant phase transitionsM Bamba, N Imoto Paperpile Physical Review A 96 (5), 053857	28	2017
Laser under ultrastrong light-matter interaction: Qualitative aspects and quantitative influences by level and mode truncationsM Bamba, T Ogawa Paperpile Physical Review A 93 (3), 033811	23	2016
Ultrastrong light–matter coupling in semiconductorsNM Peraca, A Baydin, W Gao, M Bamba, J Kono Paperpile Semiconductors and Semimetals 105, 89-151	21	2020
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Dissipation and detection of polaritons in the ultrastrong-coupling regime M Bamba, T Ogawa Paperpile Physical Review A 86 (6), 063831	~~19~~	2012
QED of excitons with nonlocal susceptibility in arbitrarily structured dielectrics M Bamba, H Ishihara Paperpile Physical Review B 78 (8), 085109	16	2008
Quantum squeezing generation versus photon localization in a disordered planar microcavity M Bamba, S Pigeon, C Ciuti Paperpile Physical review letters 104 (21), 213604	15	2010
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Observation of terahertz-induced dynamical spin canting in orthoferrite magnon by magnetorefractive probing T Kurihara, M Bamba, H Watanabe, M Nakajima, T Suemoto Paperpile Communications Physics 6 (1), 51	9	2023
Maxwell boundary conditions imply non-Lindblad master equation M Bamba, N Imoto Paperpile Physical Review A 94 (3), 033802	9	2016
Effective polariton-polariton interactions of cavity-embedded two-dimensional electron gases L Nguyen-thê, S De Liberato, M Bamba, C Ciuti Paperpile Physical Review B 87 (23), 235322	9	2013
Nonclassicality of open circuit QED systems in the deep-strong coupling regime T Shitara, M Bamba, F Yoshihara, T Fuse, S Ashhab, K Semba, K Koshino Paperpile New Journal of Physics 23 (10), 103009	7	2021
Terahertz strong-field physics without a strong external terahertz field M Bamba, X Li, J Kono Paperpile Ultrafast Phenomena and Nanophotonics XXIII 10916, 1091605	7	2019
Entangled-photon generation in nano-to-bulk crossover regime M Bamba, H Ishihara Paperpile Physical review letters 105 (12), 123906	7	2010
Entangled-photon generation via biexcitons in nano-structures M Bamba, H Ishihara Paperpile physica status solidi c 3 (10), 3460-3463	7	2006
Optical response of photonic crystals requiring high precision band calculation in the form of k (ω) including evanescent waves K Cho, J Ushida, M Bamba Paperpile Journal of the Physical Society of Japan 74 (11), 3088-3092	7	2005
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Theory of the lifetime of an exciton incoherently created below its resonance frequency by inelastic scattering M Bamba, S Wakaiki, H Ichida, K Mizoguchi, DG Kim, M Nakayama, ... Paperpile Physical Review B 91 (23), 235205	6	2015
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Terahertz magnon spectroscopy mapping of the low-temperature phases of ErxY1-xFeO3 NM Peraca, X Li, M Bamba, CL Huang, N Yuan, X Ma, GT Noe, ... Paperpile CLEO: QELS_Fundamental Science, FM4D. 5	3	2020
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Observation of ultrastrong magnon-magnon coupling in YFeO3 using terahertz magnetospectroscopyT Makihara, GT Noe, X Li, K Hayashida, NM Peraca, K Tian, X Ma, Z Jin, ... Paperpile CLEO: QELS_Fundamental Science, FM4D. 4	1	2020
強は異なり: 電磁場の相転移と熱平衡下の量子もつれ馬場基彰 Paperpile 日本物理学会誌 73 (8), 540-541	1	2018
光と物質の超強結合：光子を量子とみなせるか？馬場基彰 Paperpile パリティ 32 (11), 35-40	1	2017
光と物質の超強結合は電磁場と電荷を相転移させるか？馬場基彰 Paperpile 固体物理 52 (9), 459-476	1	2017
Emission-energy dependence of ultrafast P-emission decay in ZnO from bulk to nanofilm S Wakaiki, H Ichida, M Bamba, T Kawase, M Kawakami, K Mizoguchi, ... Paperpile Journal of luminescence 152, 250-253	1	2014
Radiative decay theory: What suppresses exciton superradiance?M Bamba, H Ishihara Paperpile physica status solidi c 6 (1), 128-132	1	2009
QED theory for excitons with microscopic nonlocalityM Bamba, H Ishihara Paperpile physica status solidi c 5 (7), 2387-2390	1	2008
Current Fluctuations and Quantum Squeezing in Landau Polaritons in the Ultrastrong Coupling RegimeK Muralidhar Kulkarni, D Kong, F Tay, J Kono, M Bamba Paperpile Bulletin of the American Physical Society		2024
Spectroscopic Evidence for the Magnonic Superradiant Phase Transition in Erbium Orthoferrite D Kim, S Dasgupta, X Ma, J Park, H Wei, L Luo, J Doumani, X Li, H Everitt, ... Paperpile Bulletin of the American Physical Society		2024
Electronic Transport and Terahertz Magnetospectroscopy Studies of BCS Superconductors in CavitiesH Xu, E Yoshizaki, F Tay, A Baydin, TE Kritzell, J Doumani, H Shi, J Moya, ... Paperpile Bulletin of the American Physical Society		2024
Observation of the Magnonic Dicke Superradiant Phase Transition J Kono, D Kim, S Dasgupta, X Ma, JM Park, HT Wei, L Luo, J Doumani, ... Paperpile		2024
Holographic Teleportation in Quantum Critical Spin Systems M Bamba, K Hashimoto, K Murata, D Takeda, D Yamamoto Paperpile arXiv preprint arXiv:2310.13299		2023
Ultrastrong Spin–Photon Coupling in Gadolinium Gallium Garnet TE Kritzell, J Bao, J Doumani, JJ Lee, H Xu, F Tay, H Nojiri, M Bamba, ... Paperpile CLEO: Science and Innovations, SF2I. 3		2023
Magnetospectroscopic Evidence for the Magnonic Superradiant Phase Transition in Erbium OrthoferriteD Kim, M Bamba, K Hayashida, J Park, X Li, W Yang, X Ma, D Cheng, ... Paperpile Bulletin of the American Physical Society		2023

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Ultrastrong Coupling between Electron Paramagnetic Resonance and Cavity Photons T Kritzell, J Bao, JJ Lee, H Xu, F Tay, H Nojiri, A Baydin, M Bamba, J Kono Paperpile Bulletin of the American Physical Society		2023
Quantum Simulation of an Extended Dicke Model with a Magnetic Solid NM Peraca, X Li, JM Moya, K Hayashida, D Kim, X Ma, KJ Neubauer, ... Paperpile arXiv preprint arXiv:2302.06028		2023
Interplay between Cavity Quantum Electrodynamics and Superconductivity H Xu, F Tay, A Baydin, J Moya, M Manjappa, M Bamba, E Morosan, ... Paperpile APS March Meeting Abstracts 2023, A27. 009		2023
Ultrastrong Coupling Between Electron Paramagnetic Resonance and Fabry–Pérot Cavity Modes T Kritzell, JJ Lee, H Xu, F Tay, H Nojiri, A Baydin, M Bamba, J Kono Paperpile Bulletin of the American Physical Society		2022
Ground state of open circuit QED systems in the deep-strong coupling regime T Shitara, M Bamba, F Yoshihara, T Fuse, S Ashhab, K Semba, K Koshino Paperpile APS March Meeting Abstracts 2021, V28. 009		2021
Terahertz Magnon Polaritons in $YFeO_3$ in Pulsed High Magnetic Fields A Baydin, K Hayashida, N Marquez Peraca, T Makihara, F Tay, X Li, X Ma, ... Paperpile APS March Meeting Abstracts 2021, P38. 004		2021
Terahertz Magnetospectroscopy Evidence of Spin-Magnon Interactions in the Low-Temperature Phase Transition of Erbium OrthoferritesN Marquez Peraca, M Bamba, K Hayashida, X Li, X Ma, T Makihara, ... Paperpile APS March Meeting Abstracts 2021, A61. 004		2021
Probing the Low-Temperature Phase Transition in $\mathrm{Er}_x\mathrm{Y}_{1-x}\mathrm{FeO}_3$ by Terahertz Magnetospectroscopy NM Peraca, M Bamba, K Hayashida, X Li, X Ma, T Makihara, DF Padilla, ... Paperpile 2020 45th International Conference on Infrared, Millimeter, and Terahertz …		2020
Terahertz Magneto-Spectroscopy Mapping of the Low-Temperature Phase Transition of ErxY1-xFeO3NM Peraca, X Li, M Bamba, CL Huang, X Ma, T Makihara, E Morosan, ... Paperpile JSAP Annual Meetings Extended Abstracts The 81st JSAP Autumn Meeting 2020 …		2020
Derivation of the Hamiltonian of a flux qubit-LC oscillator circuit using the circuit variables F Yoshihara, S Ashhab, T Fuse, K Semba Paperpile Bulletin of the American Physical Society 65		2020
Ground state of a circuit QED system in the deep-strong-coupling regime coupled to an environment T Shitara, M Bamba, F Yoshihara, T Fuse, K Semba, K Koshino Paperpile Bulletin of the American Physical Society 65		2020
Low-Temperature Phases of $Er_{1-x}Y_xFeO_3$ Mapped Out by Terahertz Time-Domain Spectroscopy N Marquez Peraca, X Li, M Bamba, CL Huang, N Yuan, G Noe, ... Paperpile Bulletin of the American Physical Society 65		2020
Mapping Out the Low-Temperature Phase Diagram of Er1–xYxFeO3 by Terahertz MagnetospectroscopyNM Peraca, X Li, M Bamba, N Yuan, GT Noe, S Cao, J Kono Paperpile Terahertz Science and Applications, TTu2G. 5		2019
Ultrastrong coupling of two terahertz magnon modes in yFeO3 in pulsed high magnetic fields GT Noe, T Makihara, X Li, K Hayashida, NM Peraca, K Tian, N Yuan, ... Paperpile Terahertz Science and Applications, TTh1F. 3		2019
Nonlinear Modulation of Optical Absorption in Orthoferrites due to Spin Precession induced by Intense Terahertz Magnetic FieldT Kurihara, M Bamba, T Suemoto Paperpile 2019 44th International Conference on Infrared, Millimeter, and Terahertz …		2019
Observation of Dicke cooperativity in magnetic interactionsM Bamba, X Li, J Kono Paperpile 日本物理学会講演概要集 74.1, 1190-1190		2019
Ultrastrong light-matter interaction in condensed matter photophysicsM BAMBA Paperpile 光物性研究会論文集 30, 5-12		2019
Cooperative exchange coupling of rare-earth spins with a vacuum magnon field in $ErFeO_3$ X Li, M Bamba, N Yuan, Q Zhang, Y Zhao, M Xiang, K Xu, Z Jin, W Ren, ... Paperpile APS March Meeting Abstracts 2019, V39. 007		2019

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Observation of Ultrastrong Magnon-Magnon Coupling in $YFeO_3$ in High Magnetic Fields G Noe, M Bamba, X Li, N Yuan, J Zhang, Z Jin, W Ren, G Ma, S Cao, ... Paperpile APS March Meeting Abstracts 2019, X39. 011		2019
Vacuum Bloch-Siegert shift in cyclotron resonanceM Bamba, X Li, J Kono Paperpile 2018 43rd International Conference on Infrared, Millimeter, and Terahertz …		2018
Microcavity Exciton Polaritons with Exceptional Points Induced by Polarization-Controllable Ultrastrong CouplingW Gao, X Li, M Bamba, J Kono Paperpile 2018 Conference on Lasers and Electro-Optics (CLEO), 1-2		2018
超放射相転移を示す物理系の探索馬場基彰 Paperpile 光科学技術研究振興財団 研究助成金贈呈・研究表彰式 29, 4-7		2018
Phase transition of electromagnetic fields and matters by ultra-strong interactionM Bamba Paperpile Kotai Butsuri 52 (9), 459-476		2017
Maxwell boundary conditions impose non-Lindblad master equationM Bamba, N Imoto Paperpile arXiv preprint arXiv:1603.00535		2016
Coherent spectral change of four-wave mixing signals from exciton-polaritons in ZnSe epitaxial layer H Tahara, M Bamba, Y Ogawa, F Minami Paperpile AIP Conference Proceedings 1566 (1), 484-485		2013
19pAK-11 Light-matter ultrastrong coupling: Squeezed emission in steady state?M Bamba, T Ogawa Paperpile Meeting Abstracts of the Physical Society of Japan 67.2. 2, 154		2012
24aBE-3 Unconventional single-photon emission from weakly nonlinear systems based on coupled cavitiesM Bamba, C Ciuti Paperpile Meeting Abstracts of the Physical Society of Japan 67.1. 2, 182		2012
Unconventional ultra-efficient photon blockade and single-photon emitters from weakly nonlinear systems based on coupled cavitiesM Bamba, C Ciuti Paperpile APS March Meeting Abstracts 2012, W1. 003		2012
23pTN-1 Realization of strong photon antibunching in weakly nonlinear photonic molecules M Bamba, A Imamoglu, I Carusotto, C Ciuti Paperpile Meeting Abstracts of the Physical Society of Japan 66.2. 4, 787		2011
Generation of entangled-photon pairs from biexcitons in CuCl thin films: Nano-to-bulk crossover regimeM Bamba, H Ishihara Paperpile Physical Review B 84 (4), 045125		2011
Theoretical framework of entangled-photon generation from biexcitons in nano-to-bulk crossover regimeM Bamba, H Ishihara Paperpile arXiv preprint arXiv:1104.0374		2011
25aRC-11 Quantum spatial correlations of normal and superfluid polaritonsM Bamba, S Pigeon, C Ciuti Paperpile Meeting Abstracts of the Physical Society of Japan 65.2. 4, 710		2010
23pRF-3 Quantum squeezing generation versus photon localization in a disordered planar microcavityM Bamba, S Pigeon, C Ciuti Paperpile Meeting Abstracts of the Physical Society of Japan 65.2. 2, 115		2010
Quantum electrodynamics of excitons with radiative relaxation馬場基彰 Paperpile		2009
Quantum Electrodynamics of Excitons with Radiative Relaxationバンバ,モトアキ, 馬場基彰 Paperpile		2009
Radiative decay theory of excitons in nano-to-macro crossoverM Bamba, H Ishihara Paperpile Quantum Coherence in Solid State Systems, 521-521		2009
Condensed matter: Electronic structure and electrical, magnetic, and optical properties-Breakdown of Fermi's Golden Rule in Exciton-Photon InteractionM Bamba, H Ishihara Paperpile Journal of the Physical Society of Japan 78 (4), 43701		2009
Entangled-photon generation via biexcitons in semiconductor nano-structuresM Bamba, H Ishihara Paperpile Quantum Electronics and Laser Science Conference, JTuD4		2006
Condensed Matter: Electronic Structure, Electrical, Magnetic and Optical Properties-Optical Response of Photonic Crystals Requiring High Precision Band Calculation in the Form …		2005

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K Cho, J Ushida, M Bamba Paperpile
Journal of the Physical Society of Japan 74 (11), 3088-3092

Supplementary Information for Vacuum Bloch-Siegert Shift in Landau-Polaritons with Ultrahigh Cooperativity X Li, M Bamba, Q Zhang, S Fallahi, GC Gardner, W Gao, M Lou, ... Paperpile

Supplementary Information for: Continuous Transition between Weak and Ultrastrong Coupling through Exceptional Points in Carbon Nanotube Microcavity Exciton Polaritons
W Gao, X Li, M Bamba, J Kono Paperpile

Laser under ultrastrong light-matter interaction--Revival of the original electromagnetic picture
M Bamba, T Ogawa Paperpile
IEICE Technical Report; IEICE Tech. Rep.

Vacuum Bloch–Siegert shift in Landau polaritons with ultra-high cooperativity
M Bamba, Q Zhang, S Fallahi, GC Gardner, W Gao, M Lou, K Yoshioka, ... Paperpile

Ground state of the quantum Rabi model in the deep strong coupling regime coupled to an environment T Shitara, M Bamba, F Yoshihara, T Fuse, K Semba, K Koshino Paperpile
IEICE Technical Report; IEICE Tech. Rep.

Coherent Phase Transition in Superconducting Circuit M Bamba Paperpile