

9. 研究成果

9.1 研究成果の概要

京都大学教育研究活動データベースの「論文」および「MISC」項目（researchmap と連携）に登録された総件数を表 1 に示す。なお、この集計は自己申告に基づくものである。

また、オンライン学術データベース Web of Science に収録されている防災研究所の研究業績を、連携する分析ツール InCites を用いて分析指標とともに抽出し、その結果を表 2 にまとめた。

Web of Science 収録論文数、国際共著論文数、および Top10%論文割合の推移は、図 1 のグラフに示すとおりである。

さらに、各年度における特許の出願・取得件数および保有数について、表 3 に示す。

9.3 節には、Web of Science に収録されている 2024 年に出版された論文の一覧を掲載する。

表 1. 教育研究活動データベース登録総件数（2025 年 5 月 1 日時点）

年度	2022	2023	2024
論文 (査読有)	542 (332)	403 (204)	434 (243)
MISC (査読有)	233 (9)	194 (2)	99 (2)

表 2. Web of Science 収録論文

出版年	論文数	国際共著論文数	Top 10%論文割合	被引用回数	被引用論文割合
2016	174	88	10.92	4368	94.25
2017	174	93	8.62	3261	88.51
2018	199	104	13.07	5076	89.45
2019	235	119	8.51	4780	89.36
2020	227	110	6.61	3543	91.19
2021	242	125	10.74	3124	91.74
2022	223	147	8.07	1916	85.65
2023	209	123	7.66	1316	88.04
2024	243	140	7.41	612	66.67

注) 2025 年 7 月 31 日までに Web of Science に収録された情報をもとに更新された InCites (2025 年 8 月 29 日版) を用いて、2025 年 10 月 10 日に抽出した。また、Web of Science 収録の引用索引ファイルは、特定の地域で注目され今後発展が期待される分野のジャーナル (Emerging Sources Citation Index, ESCI) を含む。

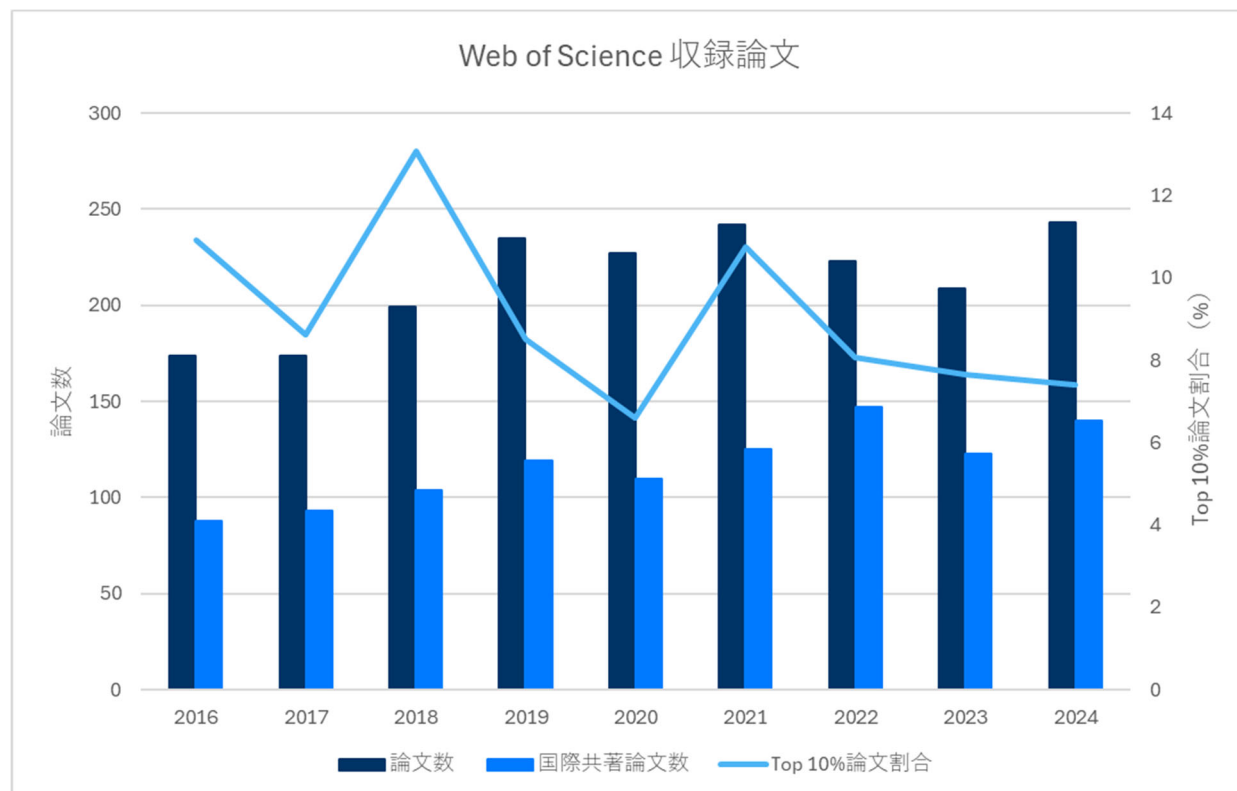


図 1. 論文数・国際共著論文数と Top10%論文割合の推移

表 3. 特許の出願・取得件数および保有数

年度	出願件数	取得件数	保有数
2019	4	1	21
2020	4	1	21
2021	2	3	23
2022	5	4	23
2023	3	2	24
2024	2	5	29

9.2 特筆すべき研究業績

研究業績の内，特筆すべき成果について記載する．

業績 番号	小区分 番号	小区分名	研究テーマ 及び 要旨【200字以内】	学 術 的 意 義	社 会 的 意 義	判断根拠（第三者による評価結果や客観的指標等） 【400字以内。ただし、「学術的意義」及び「社会、経済、 文化的意義」の双方の意義を有する場合は、800字以内】	重複して 選定した 研究業績 番号	共同 利用等	代表的な研究成果・成果物 【最大3つまで】						
									著者・発表者等	タイトル・表題等	発表雑誌・出版社 ・学会等	巻・号	頁	発行・ 発表年 等	掲載論文のDOI （付与されている場合）
1	17020	大気水圏科 学関連	多様な環境条件におけるメソ降水系とメソ極端気象の発生機構および気候変動影響に係る研究 【要旨】積乱雲の組織化により形成されるメソ降水系は、団塊状・線状など多様な形態を取り、集中豪雨などのメソ極端気象により災害に至る場合がある。本研究では、熱帯・中緯度など多様な大気環境条件の下で生起するメソ降水系の動態を解明し、メソ極端気象の発生機構を明らかにし、風水害に係るハザード予測に繋がる研究成果を挙げた。また、地球温暖化に伴う極端降水およびその大気環境条件の将来変化を明らかにした。	SS	SS	【学術的意義】メソ降水系は、積乱雲が集団化することで形成され、しばしば集中豪雨といったメソ極端気象を発生させる。しかし、熱帯や中緯度など異なる環境場におけるメソ降水系の動態の違いや発生機構および降水特性に関する包括的な理解は十分ではない。本研究は、気象学・大気科学における重要な課題の一つであるメソ降水系の動態と機構解明、および気候変動影響に係る成果を挙げた。本研究に関連した一連の研究業績により、公益社団法人日本気象学会による2023年度日本気象学会賞の受賞、インパクトファクターの高い国際学術誌への論文の掲載、関連する書籍での分担執筆といった業績を挙げた。 【社会、経済、文化的意義】近年の線状降水帯を含めた豪雨災害を受けて、メソ降水系の発生機構の理解と予測精度の向上が、科学的のみならず社会的な意義を持つ課題として認識されている。本研究は、様々な気象条件の下で生起するメソ降水系の動態と発生機構に係る成果を挙げたことで、日本における線状降水帯や集中豪雨の発生機構の理解を深めることに貢献し、気象予報や気象防災の社会的な面においても意義のある業績を挙げた。また、関連した一連の研究業績に基づき、内閣府・研究開発とSociety5.0との橋渡しプログラム（BRIDGE）の国土交通省気象庁課題「局地的・突発的な荒天対策のためのスタートアップとの連携：AIを用いたリアルタイム防災フィールド構築」のプログラムディレクターを務め、気象庁・線状降水帯予測精度向上ワーキンググループ委員として「線状降水帯の機構解明に関する研究会」を気象研究所と共同して主宰するなど、官学連携の強化によるメソ降水系研究の発展に貢献している。			(1) Sicheng He, Tetsuya Takemi	Future changes of extreme precipitation and related atmospheric conditions in east Asia under global warming projected in large ensemble climate prediction data	Journal of Climate	Vol. 37	pp. 5171–5186	2024	doi:10.1175/JCLI-D-22-0924.1
									(2) Nanami Naka, Tetsuya Takemi	Characteristics of the environmental conditions for the occurrence of recent extreme rainfall events in northern Kyushu, Japan	Scientific Online Letters on the Atmosphere	Vol. 19A	pp. 9–16	2023	doi:10.2151/soia.19A-002
									(3) Tetsuya Takemi, Nanami Naka	Analysis and Numerical Modeling of Linear-Shaped Mesoscale Convective Systems	Das, S., Tao, WK. (eds) Severe Storms. Springer, Singapore			2025	doi:10.1007/978-981-97-7075-5_9
2	17040	固体地球科 学関連	光ファイバー測定を用いた次世代型地震観測研究 分布型音響センシング(DAS)と呼ばれる光ファイバーセンシング技術を活用し、京都府南部の約1万箇所で地表の振動測定を実施した。これにより、同地域で発生する複数の小地震を捉える事に成功し、地下構造探査や地震の発生メカニズムに関する地震学的研究を行った。	S	SS	【学術的意義】DASは1本の長い光ケーブル沿いの歪みを分布的に測定する事ができるセンシング技術である。本研究ではDASを地震観測に適用するために、京都国道に敷設された50kmのケーブルを5m間隔で測定した。これは約1万箇所にセンサーを設置した観測と同等であり、超高密度観測を実現させた。この特徴を活用し、京都府南部付近の下部地殻に存在する特徴的な構造をより詳細に捉え、低周波地震との関係について調べた。また同地域で発生した小地震について、DAS記録の振幅を利用して発生メカニズムを求めることに世界で初めて成功した。 【社会、経済、文化的意義】日本における地震観測の高密度化は、1995年兵庫県南部地震後に陸地で、2011年東北地方太平洋沖地震後に海域で実施され、地震防災の要としての役割を担ってきた。地震大国日本において、今後も地震のモニタリングを高精度に行っていくことは必須であり、これら観測網の維持管理は重大な課題である。DASを用いた観測は、インフラとして整備されている海陸の光ファイバーケーブルそのものをセンサーとして利用することができるため、次世代型の地震観測網として着目されており、この実用性を研究面から証明していく必要がある。本研究により、DASにより高精度の地震観測が行え、従って地震観測そのものの省力化が進められることが示された。		○	(1) Miyazawa, M.	Inclined bending seismic reflection layer in the crust illuminated by distributed fibre-optic-sensing measurements in western Japan	Scientific Reports	14	25877	2024	10.1038/s41598-024-77024-2
									(2) Funabiki, Y. & Miyazawa, M.	Estimating focal mechanism of small earthquakes using S/P amplitude ratios of Distributed Acoustic Sensing records	Geophysical Research Letters	52	e2024GL113963	2025	10.1029/2024GL113963
									(3)						
3	17020	大気水圏科 学関連	台風内部コア構造の近年の研究の発展及び現象利用に関する総説 台風の強さに深くかわる内部コア構造（眼・壁雲・インナーレインバンド）について、数値シミュレーションや観測に基づく最先端の研究、現象機関による解析作業の詳細、気候変動によって予測される変化に関する情報を取りまとめたレビューした。	S	S	【学術的意義】眼・壁雲・インナーレインバンドに代表される台風の内部コアは、観測が難しく、いまもって課題が多く残されているテーマである。しかし、近年の計算機性能の向上や観測技術の発展により、研究の発展や現象利用が進んできた。本研究は、最先端の研究、現象機関による解析、地球温暖化により想定される変化を、7か国/地域の15人の研究者が記述した。本論文は日本気象学会気象集誌に掲載され、Editor's highlightに選出された。 【社会、経済、文化的意義】台風は世界各国、特に、人口密集地帯を擁する沿岸地域にとって、脅威となり続けている。台風災害を未然に防ぐためには、台風の内部コア構造に関する正しい解析や予報が重要である。本論文は、台風内部コア構造に関する最新の情報を取りまとめ、各国の研究者・予報官が最先端の情報を共有することを促す重要なものである。			(1) Ito, K., Y. Miyamoto, C.-C. Wu, A. Didlake, J. Hlywiak, Y.-H. Huang, T.-K. Lai, L. Pattie, M. Qin, U. Shimada, D. Tao, Y. Yamada, J. A. Zhang, S. Kanada, and D. Herndon	Recent research and operational tools for improved understanding and diagnosis of tropical cyclone inner core structure	Journal of Meteorological Society of Japan	103(2)	147–180	2025	10.2151/jms.2025-008
									(2)						
									(3)						

4	17040	固体地球科学関連	能登半島における一連の地震活動に関する観測解析研究 2024年1月1日に発生した能登半島地震 (M7. 6) とそれに先行した地震活動について、GNSSや重力、InSAR等の地殻変動解析や新たに開発した地震波解析手法を駆使して、地下の流体移動や複雑な断層破壊過程を明らかにした。	S	S	【学術的意義】 遠地の地震波の解析ではPDTI法という断層面をあらかじめ仮定しない新しい手法を用い、地殻変動データの解析からでは浅部で断層面が広角であることや推定誤差を考慮して2024年能登半島地震の震源過程を明らかにした。震源過程を明らかにすることは、地震の発生メカニズムの解明や、地震動や津波などのハザード評価の基礎となるものである。また、重力データとGNSSデータの両方を観測することで、地下の密度変化の検出に成功し、能登半島の地震活動に流体移動が関わっていることを示した。 【社会、経済、文化的意義】 内陸地殻内地震としては、1995年兵庫県南部地震以来の大災害を引き起こした能登半島地震の発生メカニズムや活断層との関係についての知見を提供するとともに、群発地震活動の推移予測のための重要なデータを示した。		(1)	Ryo Okuwaki, Yuji Yagi, Asuka Murakami, <u>Yukitoshi Fukahata</u>	A Multiplex Rupture Sequence Under Complex Fault Network Due To Preceding Earthquake Swarms During the 2024 Mw 7.5 Noto Peninsula, Japan, Earthquake	Geophysical Research Letters	51	e2024GL109224	2024	10. 1029/2024GL109224
								(2)	Yamada, T., Ohta, Y., <u>Nishimura, T.</u> , Yoshida, K., Hiramatsu, Y., and Kinoshita, Y.	Coseismic slip distribution of the 2024 Noto Peninsula earthquake deduced from dense global navigation satellite system network and interferometric synthetic aperture radar data: effect of assumed dip angle	Earth Planets Space	77	32	2025	10. 1186/s40623-025-02154-4
								(3)	Tanaka, Y., Nishiyama, R., Araya, A., Sakaue, H., Nakakoji, K., Takata, T., <u>Nishimura, T.</u> , Hiramatsu Y., and Sawada, A.	A possibility of fluid migration due to the 2023 Mw 5 Noto Peninsula earthquake suggested from precise gravity measurements	Earth Planets Space	77	45	2025	10. 1186/s40623-025-02153-5
5	25030	防災工学関連	津波避難戦略検討システム「逃げトレView」の開発と社会実装 「逃げトレView」は避難訓練支援アプリ「逃げトレ」から得られた大量の訓練データを集積・分析し、その結果をもとに地域の津波避難戦略について検討することができるシステムであり、特許を取得した。本システムは、たとえば、南海トラフ地震臨時情報発表時に、事前避難すべき地域、営業を休止すべき海岸沿いの商業施設などの特定に資する。	S	SS	【学術的意義】 主に2点ある。第1は、真の学際性である。防災・減災研究の推進のためには、自然科学と社会科学の融合が不可欠だとしばしば指摘される。しかし、実際には、言うは易く行うは難しである。これに対して、本研究では、陸上に遡上した津波の挙動と現実の生活空間を避難する人間の行動とを、スマートフォンやコンピュータ上で、同時に可視化するためのシステム開発を通して、津波工学、空間情報学、人間行動学などの諸領域が真に融合している。第2は、防災学研究に初めて本格的にオープンサイエンス（シチズンサイエンス）の発想を導入した点である。本システムを用いると、実際に訓練に参加した市民や自治体職員（非専門家）が、訓練の結果を自ら観察し分析し、その結果に基づいて新たな避難方法を考案し試行可能である。つまり、本研究は、データの収集・集積・分析、それを踏まえた次の実践という科学的なプロセスに非専門家を参加させるためのオープンサイエンスの性質をもっている。 【社会、経済、文化的意義】 南海トラフ地震のリスクが高まる中、津波による人的被害の軽減は目下最大の防災課題であり、その決め手が迅速な避難行動にあることはつとに指摘されてきた。本システムは、訓練時に人びとが実際に空間移動したデータを大量に集積・分析することで、どのタイミングで、どこを通過して、どこに逃げることを守るにより貢献するのかについて、客観的かつ定量的に評価することを容易にしたものもある。本システムが、実践的に大きな意義をもっていることは、すでに数万人以上が本システムを利用していることから、また、本システムが、きわめて先進的な技術を伴っていることは、令和6年7月に「津波避難戦略検討支援システム、津波避難戦略検討支援方法、およびコンピュータプログラム」として特許取得が認められたこと（特許第7513974号）にあらわれている。		(1)	国立大学法人京都大学、株式会社ジイケイ京都、有限会社アールツー・メディアソリューション	津波避難戦略検討支援システム、津波避難戦略検討支援方法、およびコンピュータプログラム	特開2024-060799			2024	
								(2)	<u>Yamori, K.</u>	Open science for fostering seismologic science literacy	Journal of Disaster Research	19(1)	139-146	2024	
								(3)	Goltz, J., <u>Yamori, K.</u> , Nakayachi, K., Shiroshita, H., Sugiyama, T., and Matsubara, Y.	Operational earthquake forecasting in Japan: A study of municipal government planning for an earthquake advisory or warning in the Nankai Region	Seismological Research Letters	95 (4)	2251-2265	2024	10. 1785/0220230304

6	25030	防災工学関連	地震火災・津波火災の確率論的ハザード・リスク評価手法の開発	SS	S	【学術的意義】地震は、地震動だけでなく、津波や火災などの複数のハザードを連鎖的に引き起こし、地域に複合的な影響をもたらす。しかし、これまでの地震リスク評価は、地震動によって生じる損失のみに着目しており、連鎖ハザードを含めたマルチハザードリスクを統合的なアプローチで一体的に評価するための理論的枠組みとそれに必要な予測手法は十分に確立されていなかった。本研究は、地震工学、津波工学、火災安全工学等の異分野の知識・技術を有機的に統合することで、地震関連マルチハザードリスクの正しい理解やそれに基づく軽減対策の立案に繋がる工学的なツールを開発したもので、今後の地震防災に有益な知見をもたらすと考えられる成果を挙げた。特に、津波火災は東日本大震災で初めて重要性が認識された新分野で、防災計画に資する理論的手法を提示した意義は極めて大きい。本研究に関連する一連の成果は、国際的に評価の高い学術誌に原著論文として発表されており、これらの成果により、公益社団法人日本地震工学会から大崎順彦賞を授与された。		(1)	Nishino, T.	Probabilistic urban cascading multi-hazard risk assessment methodology for ground shaking and post-earthquake fires	Natural Hazards	116	3165-3200	2023	10.1007/s11069-022-05802-0
			【要旨】本研究では、地震動に起因する火災（地震火災）と津波に起因する火災（津波火災）に着目し、それらの性状を予測するための手法を開発するとともに、これまでの確率論的な地震リスク評価や津波ハザード評価の枠組みに組み込むことで、地震動以外の連鎖ハザードを含めた本来あるべき総合的な地震リスク評価とそれに基づく軽減対策の立案に繋がる研究成果を挙げた。また、開発した手法を活用し、将来の大地震・巨大地震時に起こり得る地震火災・津波火災の多様な様相を数値的に予測した。					(2)	Nishino, T.	Post-earthquake fire ignition model uncertainty in regional probabilistic shaking-fire cascading multi-hazard risk assessment: A study of earthquakes in Japan	International Journal of Disaster Risk Reduction	98	104124	2023	10.1016/j.ijdr.2023.104124
								(3)	Nishino, T. , Miyashita, T. , Mori, N.	Methodology for probabilistic tsunami-triggered oil spill fire hazard assessment based on Natech cascading disaster modeling	Reliability Engineering & System Safety	242	109789	2024	10.1016/j.res.2023.109789
7	17030	地球人間関係科学関連	大規模土砂災害の運動機構及び予測手法の高度化	SS	S	【学術的意義】岩層なだれは、崩壊した岩塊が高速かつ長距離にわたって移動する超流動性を示す自然現象であり、時に地域社会に甚大な被害をもたらす。しかし、このような岩層なだれの発生において、移動岩塊のせん断抵抗が大幅に低下するメカニズムについては、依然として十分に解明されていない。本研究では、細粒分の流出による斜面土層の不安定化機構や、岩壁崩壊時における岩塊破砕および摩擦特性の変化に関する新たな知見を通じて、地盤材料の力学挙動に対する理解を深化させた。さらに、改良型3次元DDA法を用いた多ブロック岩塊落下の定量的解析と、実岩形状に基づく高精度な挙動予測手法の提案により、現象の再現性と予測精度を飛躍的に向上させ、斜面災害のリスク評価および防災対策の高度化に資する学術的・実践的意義が高い。		(1)	Zhou, L. , Zheng, Y.S. , Hu, W. , Li, Y. , Luo, H. , Wang, G.	Evolution of mechanical behavior in granular soil during fine particle loss simulated by salt dissolution: Insights from ring shear tests.	Engineering Geology	343	107790	2024	https://doi.org/10.1016/j.enggeo.2024.107790
			本研究では、斜面土層中の細粒分の流出がもたらす力学特性の劣化と不安定化機構を解明するとともに、大規模岩壁崩壊に伴う崩壊土砂の移動過程において生じる岩塊の破砕や運動摩擦による土塊のせん断抵抗の劣化を明らかにした。さらに、多ブロック岩塊落下の力学挙動における反発係数の役割に着目し、改良型3次元DDA法を用いてエネルギー散逸と運動特性を解析し、実岩形状を用いた高精度な挙動予測手法を提案した。					(2)	Wu, S. , Wang, G.	Mechanical effects of nanomaterials on the residual shear strength of dry sandy mixtures: Implication for the high mobility of rock avalanches	Engineering Geology	336	107569	2024	https://doi.org/10.1016/j.enggeo.2024.107569
								(3)	Li, C.Z. , Wang, G. , Chen, G.Q. , Gao, J.Y. , Yue, P.C. , Peng, X.Y.	Dynamic Analysis of Multi-block Rockfalls using Improved 3-D DDA: Effect of Coefficient of Restitution.	Engineering Geology	346	107910	2024	https://doi.org/10.1016/j.enggeo.2025.107910

9.3 研究成果一覧

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9.4 受賞（教職員）

令和 6 年度

氏名	賞名	受賞年月日
伊藤 耕介	2024 年度日本気象協会岡田賞	2024/11/18
王 功輝	Engineering Geology 2024 Best Paper Award	2024/05/10
呉 映昕	Journal of Mountain Science, Most Influential Article Award	2024/12/31
澁谷 拓郎・為栗 健・山下 裕亮・ 三浦 勉・中川 潤・米田 格	2024 年度日本火山学会論文賞	2024/05/24
角 哲也	Commemorative Medal for the Cause of Agriculture and Rural Development, Minister of Agriculture and Rural Development, Vietnam	2024/11/14
竹見 哲也	Advances in Atmospheric Sciences Editor's Award 2024	2025/01/10
中野 元太	第 6 回復興デザイン研究賞優秀研究賞	2024/11/30
西川 友章	Progress in Earth and Planetary Science The Most Downloaded Paper Award 2024	2024/05/24
矢守 克也	令和 6 年防災功労者内閣総理大臣表彰	2024/09/13
矢守 克也	土木学会地球環境委員会 2024 年度地球環境論文賞	2024/09/26
間瀬 肇 (名誉教授)	令和 5 年土木学会技術開発賞	2024/06/14
間瀬 肇 (名誉教授)	第 26 回（令和 6 年度）国土技術開発賞入賞	2024/07/31