

Piotr Darnowski – Publication List

August 2022

JOURNAL PAPERS

1. M. A. FÜTTERER, R. PABARCIUS, S. HÜBNER, L. PIEŃKOWSKI, W. BRUDEK, P. DARNOWSKI, M. PAWLUCZYK, B. CHMIELARZ, M. ŠILHAN, NUCLEAR PROCESS HEAT APPLICATION OPTIONS: HIGHLIGHTS FROM THE EUROPEAN GEMINI+ PROJECT, NUCLEAR ENGINEERING AND DESIGN, 396 (2022), 111879, DOI.ORG/10.1016/J.NUCENGDES.2022.111879
2. P. MAZGAJ, P. DARNOWSKI, A. KASZKO, J. HORTAL, M. DUSIC, R. MENDIZÁBAL, F. PELAYO, RELIABILITY ENGINEERING & SYSTEM SAFETY, 226 (2022), 108707, DOI.ORG/10.1016/J.RESS.2022.108707
3. E. SKRZYPEK, D. MUSZYŃSKI, M. SKRZYPEK, P. DARNOWSKI, J. MALESA, A. BOETTCHER, M. DĄBROWSKI, PRE-CONCEPTUAL DESIGN OF THE RESEARCH HIGH-TEMPERATURE GAS-COOLED REACTOR TERESA FOR NON-ELECTRICAL APPLICATIONS, ENERGIES. 2022; 15(6):2084. DOI.ORG/10.3390/EN15062084
4. M. WŁOSTOWSKI, P. DOMITR, P. DARNOWSKI, A SENSITIVITY STUDY OF CRITICAL FLOW MODELING WITH MELCOR 2.2 CODE BASED ON THE MARVIKEN CFT-21 EXPERIMENT. ENERGIES. 2021; 14(16):4985. DOI.ORG/10.3390/EN14164985
5. P. DARNOWSKI, P. MAZGAJ, M. WŁOSTOWSKI, UNCERTAINTY AND SENSITIVITY ANALYSIS OF THE IN-VESSEL HYDROGEN GENERATION FOR GEN-III PWR AND PHEBUS FPT-1 WITH MELCOR 2.2. ENERGIES. 2021; 14(16):4884. DOI.ORG/10.3390/EN14164884
6. R. LO FRANO, S. A. CANCEMI, P. DARNOWSKI, CIOLINI R, PACI S. PRELIMINARY ANALYSIS OF AN AGED RPV SUBJECTED TO STATION BLACKOUT. ENERGIES. 2021; 14(15):4394. DOI.ORG/10.3390/EN14154394
7. M. SPIRZEWSKI, P. DOMITR, P. DARNOWSKI, GLOBAL UNCERTAINTY AND SENSITIVITY ANALYSIS OF MELCOR AND TRACE CRITICAL FLOW MODELS AGAINST MARVIKEN TESTS, NUCLEAR ENGINEERING AND DESIGN 378 (2021), 111150, DOI: 10.1016/J.NUCENGDES.2021.111150.
8. W. KUBIŃSKI, P. DARNOWSKI, K. CHEĆ, OPTIMIZATION OF THE LOADING PATTERN OF THE PWR CORE USING GENETIC ALGORITHMS AND MULTI-PURPOSE FITNESS FUNCTION, NUKLEONIKA, 66(2021), 4, 147-151, DOI: 10.2478/NUKA-2021-0022
9. W. ŻURKOWSKI, P. SAWICKI, W. KUBIŃSKI, P. DARNOWSKI, APPLICATION OF GENETIC ALGORITHMS IN OPTIMIZATION OF SFR NUCLEAR REACTOR DESIGN, NUKLEONIKA, 66(2021), 4, 139-145, DOI: 10.2478/NUKA-2021-0021
10. W. KUBIŃSKI, P. DARNOWSKI, K. CHEĆ, THE DEVELOPMENT OF A NOVEL ADAPTIVE GENETIC ALGORITHM FOR THE OPTIMIZATION OF FUEL CYCLE LENGTH, ANNALS OF NUCLEAR ENERGY 155(2021):108153, DOI: 10.1016/J.ANUCENE.2021.108153
11. E. R. S. A. KUMAR, M. K. PANCHOLI, P. DARNOWSKI, A. DZIDO, NEUTRONIC PERFORMANCE OF A THORIUM BASED MIXED OXIDE FUEL IN A BURNER SODIUM-COOLED FAST REACTOR, ENERGY, VOL. 212, 2020, DOI: 10.1016/J.ENERGY.2020.118744
12. P. DARNOWSKI, M. WŁOSTKOWSKI, M. STĘPIEŃ, G. NIEWIŃSKI, STUDY OF THE MATERIAL RELEASE DURING PHÉBUS FPT-1 BUNDLE PHASE WITH MELCOR 2.2.11954, ANNALS OF NUCLEAR ENERGY, VOL. 148, 2020, 107700, DOI: 10.1016/J.ANUCENE.2020.107700
13. P. DARNOWSKI, M. STĘPIEŃ, M. WŁOSTOWSKI, K. ŚWIRSKI, ZACHOWANIE SUBSTANCJI PROMIENIOTWÓRCZYCH W OBIEGU PIERWOTNYM REAKTORA JĄDROWEGO TYPU PWR PODCZAS CIĘŻKIEJ AWARII , BEZPIECZEŃSTWO JĄDROWE I OCHRONA RADIOLOGICZNA – BIULETYN PAA, 3-4/2019 (IN POLISH)
14. P. DARNOWSKI, M. WŁOSTOWSKI, ZINTEGROWANE ANALIZY AWARII CIĘŻKICH NA PRZYKŁADZIE EKSPERYMENTU PHEBUS FPT-1 Z WYKORZYSTANIEM KODU OBLICZENIOWEGO MELCOR 2.2 - CZĘŚĆ 2: SYMULACJE , BEZPIECZEŃSTWO JĄDROWE I OCHRONA RADIOLOGICZNA – BIULETYN PAA, 3-4/2019 (IN POLISH)
15. P. DARNOWSKI, M. WŁOSTOWSKI, ZINTEGROWANE ANALIZY AWARII CIEŻKICH NA PRZYKŁADZIE EKSPERYMENTU PHEBUS FPT-1 Z WYKORZYSTANIEM KODU OBLICZENIOWEGO MELCOR 2.2 – CZĘŚĆ 1: OPIS INSTALACJI, MODELU I KWALIFIKACJA STANU USTALONEGO, BEZPIECZEŃSTWO JĄDROWE I OCHRONA RADIOLOGICZNA – BIULETYN PAA, 1-2/2019 (IN POLISH)
16. P. DARNOWSKI, M. PAWLUCZYK, ANALYSIS OF THE BEAVRS BENCHMARK WITH SCALE AND PARCS, NUKLEONIKA, VOL. 60 NO. 3, 2019, 87-96. DOI: 10.2478/NUKA-2019-0011
17. P. DARNOWSKI, P. IGNACZAK, P. OBRĘBSKI, M. STĘPIEŃ, G. NIEWIŃSKI, SIMULATIONS OF THE AP1000-BASED REACTOR CORE WITH SERPENT COMPUTER CODE, ARCHIVE OF MECHANICAL ENGINEERING, NO. 3, VOL. LXV, 2018, DOI: 10.24425/124484

18. P. DARNOWSKI, P. FURMAŃSKI, R. DOMAŃSKI, RELATION BETWEEN TRANSVERSE THERMAL CONDUCTIVITY AND THE COORDINATION NUMBER FOR FIBER-REINFORCED COMPOSITES WITH RANDOM DISTRIBUTION OF FIBRES, ARCHIVES OF THERMODYNAMICS VOL. 40(2019) NO. 1, 21-48, DOI: 10.24425/ATHER.2019.128288
19. M. GRODZKI, P. DARNOWSKI, G. NIEWIŃSKI, MONTE CARLO ANALYSIS OF THE BATTERY-TYPE HIGH-TEMPERATURE GAS COOLED REACTOR, ARCHIVES OF THERMODYNAMICS, VOL. 38, NO. 4, 2017, DOI: 10.1515/AOTER-2017-0032
20. P. DARNOWSKI, P. FURMAŃSKI, R. DOMAŃSKI, COORDINATION NUMBER FOR RANDOM DISTRIBUTION OF HARD DISKS, ARCHIVES OF THERMODYNAMICS VOL. 38(2017) NO. 1, 3-26, DOI: 10.1515/AOTER-2017-0001
21. P. DARNOWSKI, G. NIEWIŃSKI, M. PAWLUCZYK, J. PILICHOWSKA, ANALYSIS OF EFFECTS OF FORMATION OF NON-CONDENSABLE GASES AND WATER VAPOR DURING A SEVERE ACCIDENT IN A BOILING WATER NUCLEAR REACTOR, (IN POLISH), PRZEMYSŁ CHEMICZNY, 3, 2017, DOI: 10.15199/62.2017.2.5
22. P. DARNOWSKI, K. POTAPCZYK, K. ŚWIRSKI, INVESTIGATION OF THE RECRITICALITY POTENTIAL DURING REFLOODING PHASE OF FUKUSHIMA DAIICHI UNIT-3 ACCIDENT, ANNALS OF NUCLEAR ENERGY, 99 (2017), 495-509, DOI: 10.1016/J.ANUCENE.2016.10.004
23. P. DARNOWSKI, E. GRODZICKA, P. MAZGAJ, K. ŚWIRSKI, P. GANDRILLE, TOTAL LOSS OF AC POWER ANALYSIS FOR EPR REACTOR, NUCLEAR ENGINEERING AND DESIGN 289 (2015), 8-18, DOI: 10.1016/J.NUCENGDES.2015.03.020
24. P. DARNOWSKI, N. UZUNOW, MINOR ACTINIDES IMPACT ON THE BASIC SAFETY PARAMETERS OF MEDIUM SIZED SODIUM-COOLED FAST REACTOR, NUKLEONIKA, 2015, 60(1), 171-179, DOI: 10.1515/NUKA-2015-0034
25. P. MAZGAJ, P. DARNOWSKI, S. GURGACZ, M. LIPKA, K. DZIUBANII, COMPARISON OF SIMPLE DESIGN OF SODIUM AND LEAD COOLED FAST REACTOR CORES, JOURNAL OF POWER TECHNOLOGIES 94 (NUCLEAR ISSUE), 2014, 16-24
26. P. MAZGAJ, P. DARNOWSKI, TRANSMUTATION: A REDUCTION OF THE STORAGE TIME OF A SPENT FUEL, JOURNAL OF POWER TECHNOLOGIES 94 (NUCLEAR ISSUE), 2014, 25-32
27. A. DOMINIĄK, M. RĄPAŁA, R. DOMAŃSKI, B. BARTKOWIAK, P. DARNOWSKI, SOLID-FUEL ROCKET ENGINES: LAYERED COMPOSITE MATERIALS MANUFACTURING AND THERMAL DIFFUSIVITY MEASUREMENTS, HIGH-TEMPERATURE MATERIALS AND PROCESSES, AUGUST 2013, DOI: 10.1515/htmp-2013-0054
28. P. O. STREĆIWIŁK, P. DARNOWSKI, A. DOMINIĄK, R. DOMAŃSKI, MOX AND UOX FUEL MELT MARGIN FOR EUROPEAN PRESSURIZED REACTOR, JOURNAL OF POWER TECHNOLOGIES 93(3), 2013, 169-177

POPULAR ARTICLES

1. P. DARNOWSKI, ACCELERATOR DRIVEN SUB-CRITICAL REACTORS, EKOATOM ONLINE MAGAZINE, NO. 12, 2014, 53-59 (IN POLISH)
2. P. DARNOWSKI, GENERATION IV NUCLEAR REACTORS COOLED BY LIQUID METALS, EKOATOM ONLINE MAGAZINE, NO. 6, 2012 (IN POLISH)

TECHNICAL REPORTS (PUBLICLY AVAILABLE)

1. S. GURGACZ, M. PAWLUCZYK, P. MAZGAJ, P. DARNOWSKI, K. SAMUL, M. SKRZYPEK, EPR MEDIUM BREAK LOCA BENCHMARKING EXERCISE USING RELAP5 AND CATHARE, 2016, NUREG/IA-0459.
2. M. PAWLUCZYK, P. DARNOWSKI, W. BRUDEK, CONCEPT OF HYBRID ENERGY SYSTEMS FOR A CONCRETE APPLICATION IN THE POLISH INDUSTRY CONTEXT, 13.11.2019, DELIVERABLE D3.13, GEMINI+ HORIZON 2020 EU PROJECT.

SELECTED TECHNICAL REPORTS (NOT AVAILABLE PUBLICLY)

1. P. DARNOWSKI, W. BRUDEK, ATTACHMENT TO DELIVERABLE D4.4 "ASSESSMENT OF THE ADEQUACY OF THE GEMINI+ COGENERATION SYSTEM FOR PROVIDING THE SERVICES REQUIRED BY INDUSTRIAL FACILITIES EXISTING ON THE DEMONSTRATION SITE" - INFORMATION FOR POTENTIAL GEMINI+HTGR STEAM/HEAT END USERS.
2. H. BRUNELIERE, T. BARRY, J. BRANDELET, L. PERRICHON, N. DUFLOT, Y. GUIGENO, P. DARNOWSKI, P. MAZGAJ, M. STEPIEN, NARSIS HORIZON 2020 PROJECT, WP4.1 DEL4.1 REPORT, WP4: APPLYING AND COMPARING VARIOUS SAFETY ASSESSMENT APPROACHES ON A VIRTUAL REACTOR, DEL4.1: DEFINITION OF A SIMPLIFIED THEORETICAL NPP REPRESENTATIVE OF THE EUROPEAN FLEET, 2018

3. P. DARNOWSKI ET. AL (EDITOR AND LEADING AUTHOR), 15 AUTHORS. WP4.3 DEL4.5, WP4: APPLYING AND COMPARING VARIOUS SAFETY ASSESSMENT APPROACHES ON A VIRTUAL REACTOR, DEL4.5 - REACTOR SAFETY ANALYSIS RESULTS USEFUL FOR, SEVERE ACCIDENT ANALYSIS, CONSIDERING, DETERMINISTIC AND PROBABILISTIC APPROACHES, 2021
4. P. DARNOWSKI ET. AL (EDITOR AND LEADING AUTHOR), 9 AUTHORS. WP5.1 DEL 5.4B. WP5: SUPPORTING TOOL FOR SEVERE ACCIDENT MANAGEMENT, D5.4B – REFERENCE GENERATION II NPP MELCOR MODEL AND ACCIDENT ANALYSIS RESULTS, 2021
5. P. DARNOWSKI, M. STĘPIEŃ, G. NIEWIŃSKI, METODOLOGIA OCENY OBUDOWY BEZPIECZEŃSTWA Z PUNKTU WIDZENIA ZACHOWANIA PRODUKTÓW ROZSZCZEPIONIA NA PODSTAWIE WYBRANYCH DANYCH EKSPERYMENTALNYCH, REPORT FOR NATIONAL ATOMIC ENERGY AGENCY, 26.11.2018 (IN POLISH).
6. P. DARNOWSKI, P. MAZGAJ, M. STĘPIEŃ, G. NIEWIŃSKI, K. ŚWIRSKI, OCENA PRZEBIEGU AWARII ROZERWANIA GŁÓWNEGO RUROCIĄGU PAROWEGO BLOKU ELEKTROWNI JĄDROWEJ Z REAKTOREM EPR, REPORT FOR NATIONAL ATOMIC ENERGY AGENCY, 09.12.2016 (IN POLISH).
7. P. DARNOWSKI, M. STĘPIEŃ, G. NIEWIŃSKI, KONRAD ŚWIRSKI, ET. AL. ZACHOWANIE SUBSTANCJI PROMIENIOTWÓRCZYCH W REAKTORZE JĄDROWYM PODCZAS CIĘŻKIEJ AWARII, REPORT FOR NATIONAL ATOMIC ENERGY AGENCY, 14.11.2016 (IN POLISH).
8. P. DARNOWSKI, M. PAWLUCZYK, P. MAZGAJ, S. GURGACZ, M. GATKOWSKI, OBLICZENIA GĘSTOŚCI ATOMOWYCH, MASY ORAZ AKTYWNOŚCI PROMIENIOTWÓRCZEJ PRODUKTÓW ROZSZCZEPIONIA DLA WYBRANEGO REAKTORA ENERGETYCZNEGO PRZY UŻYCIU SPECJALISTYCZNYCH PROGRAMÓW OBLICZENIOWYCH, REPORT FOR NATIONAL ATOMIC ENERGY AGENCY, 21.11.2015 (IN POLISH).
9. P. DARNOWSKI, CAŁKOWITA UTRATA ZASILANIA ELEKTRYCZNEGO OBIEKTU JĄDROWEGO TRWAJĄCA PRZEZ DŁUGI OKRES CZASU WARIANT ZMODYFIKOWANEJ AWARII STATION BLACKOUT DLA REAKTORA EPR SCENARIUSZ #3, SARWUT-SCN-008-R, PROJEKT SARWUT, 2014
10. E. SKRZYPEK, P. DARNOWSKI, UCIECZKA CHŁODZIWA REAKTORA W POŁĄCZENIU Z CAŁKOWITĄ UTRATĄ MOŻLIWOŚCI AWARYJNEGO CHŁODZENIA RDZENIA DLA REAKTORA EPR COLD LEG LARGE BREAK LOSS OF COOLANT ACCIDENT DLA REAKTORA EPR SCENARIUSZ #2, SARWUT-TASK-007-R, PROJEKT SARWUT, 2014
11. P. DARNOWSKI, CAŁKOWITA UTRATA MOŻLIWOŚCI ODPROWADZANIA CIEPŁA POWYŁĄCZENIOWEGO Z RDZENIA REAKTORA SCENARIUSZ #1, SARWUT-TASK-006-R, PROJEKT SARWUT, 2014
12. P. DARNOWSKI, CAŁKOWITA UTRATA ZASILANIA ELEKTRYCZNEGO SYMULACJE CIĘŻKIEJ AWARII REAKTORA EPR Z CAŁKOWITĄ UTRATĄ ZEWNĘTRZNEGO I WEWNĘTRZNEGO ZASILANIA PRĄDEM PRZEMIENNYM (TOTAL LOSS OF AC POWER), SCENARIUSZ #4 – DODATKOWY, PROJEKT SARWUT, 2014
13. REPORTS PREPARED DURING INTERNSHIPS AT COMPANIES (NUSCALE POWER, GE HITACHI NUCLEAR) NOT INCLUDED.

CONFERENCE PAPERS (IN PROCEEDINGS, PAPERS WITH PRESENTATION ONLY EXCLUDED FROM THIS LIST)

1. P. DARNOWSKI, P. MAZGAJ, MELSUA – AN OPEN-SOURCE MATLAB TOOLBOX FOR SENSITIVITY AND UNCERTAINTY ANALYSIS WITH MELCOR CODE, 5-8.06.2022, ZADAR, CROATIA, 13TH INTERNATIONAL CONFERENCE OF THE CROATIAN NUCLEAR SOCIETY (PROCEEDINGS IN PREPARATION)
2. P. MAZGAJ, P. DARNOWSKI, R. TREWIN, P. KRAL, M. PUUSTINEN, IMPACT OF SELECTED LONG-TERM OPERATION, IMPROVEMENTS RELEVANT TO THE PRESSURIZED, THERMAL SHOCK IN PWR, 5-8.06.2022, ZADAR, CROATIA, 13TH INTERNATIONAL CONFERENCE OF THE CROATIAN NUCLEAR SOCIETY (PROCEEDINGS IN PREPARATION)
3. W. KUBIŃSKI, P. DARNOWSKI, K. PALMI, PREDICTION OF NUCLEAR REACTOR CORE PARAMETERS USING ARTIFICIAL NEURAL NETWORK, PHYSOR-2022 INTERNATIONAL CONFERENCE ON PHYSICS OF REACTORS 2022, MAY 18 2022.
4. W. KUBIŃSKI, P. BOJARSKI, P. DARNOWSKI, APPLICATION OF ARTIFICIAL NEURAL NETWORK AND PARTICLE SWARM OPTIMIZATION IN DETERMINING SELECTED PARAMETERS OF THE NUCLEAR REACTOR CORE, ENYGF TARRAGONA 2021, SPAIN 27.09-30.09.2021
5. W. KUBIŃSKI, P. BOJARSKI, P. DARNOWSKI, APPLICATION OF AN ARTIFICIAL NEURAL NETWORK TO SUPPORT THE DESIGN OF THE PWR REACTOR CORE CONFIGURATION, NENE-2021 PROCEEDINGS, BLED, SLOVENIA, 6-9.09.2021
6. P. MAZGAJ, P. DARNOWSKI, G. NIEWIŃSKI, ANALIZA NIEPEWNOŚCI I WRAŻLIWOŚCI DLA WYTWARZANIA SIĘ WODORU PODCZAS EKSPERYMENTU PHEBUS FPT-1, XXIV ZJAZD TERMODYNAMIKÓW 2020, 125-132
7. W. KUBIŃSKI, P. DARNOWSKI, K. CHEĆ, OPTIMIZATION OF BEAVRS PWR LOADING PATTERN USING A NOVEL GENETIC ALGORITHM BASED ON POPULATION VARIANCE CONTROL, NENE-2020, NENE-2020 PROCEEDINGS, PORTOROZ, SLOVENIA, 7-10.09.2020
8. P. DARNOWSKI, P. MAZGAJ, I. BAŠIĆ, I. VRBANIĆ, M. SKRZYPEK, J. MALESA, A. SILDE, J. HIITTENKIVI, L. ŠTRUBELJ, SEVERE ACCIDENT SIMULATIONS DEDICATED TO THE SAMG DECISION-MAKING TOOL DEMONSTRATION, NENE-2020, NENE-2020 PROCEEDINGS, PORTOROZ, SLOVENIA, 7-10.09.2020

9. P. MAZGAJ, P. DARNOWSKI, A. KASZKO, J. HORTAL, M. DUSIC, R. MENDIZÁBAL, F. PELAYO, DEMONSTRATION OF THE E-BEPU METHODOLOGY FOR LB-LOCA IN NPP WITH PWR REACTOR, NENE-2020, NENE-2020 PROCEEDINGS, PORTOROZ, SLOVENIA, 7-10.09.2020
10. S. A. CANCEMI, R. LO FRANO, R. CIOLINI, P. DARNOWSKI, PRELIMINARY ANALYSIS OF CREEP AND AGEING INFLUENCE DURING SBO ACCIDENT, NENE-2020, NENE-2020 PROCEEDINGS, PORTOROZ, SLOVENIA, 7-10.09.2020
11. R. LO FRANO, S. PACI, P. DARNOWSKI, P. MAZGAJ, STUDY OF THE AGEING EFFECTS ON THE LOWER HEAD FAILURE IN A PWR REACTOR, ICONE28-POWER2020-16664, PROCEEDINGS OF THE 2020 28TH CONFERENCE ON NUCLEAR ENGINEERING JOINT WITH THE ASME 2020 POWER CONFERENCE ICONE28-POWER2020 AUGUST 2-6, 2020, ANAHEIM, CALIFORNIA, USA, DOI.ORG/10.1115/ICONE2020-16664
12. P. DARNOWSKI, P. MAZGAJ, SEVERE ACCIDENT ASSESSMENT WITH UNCERTANITY AND SENSITIVITY ANALYSIS, PROCEEDINGS OF THE 1ST NARSIS WORKSHOP, TRAINING ON PROBABILISTIC SAFETY ASSESSMENT FOR NUCLEAR FACILITIES, WARSAW, POLAND, 2-5.09.2019
13. E. R. S. A. KUMAR, P. DARNOWSKI, M. K. PANCHOLI, A. DZIDO, THORIUM APPLICATION IN THE MEDIUM-SIZED SODIUM-COOLED FAST REACTOR, RDPE-2019, E3S WEB CONFERENCES 137, 01030 (2019), DOI: 10.1051/E3SCONF/201913701030
14. P. MAZGAJ, P. DARNOWSKI, G. NIEWIŃSKI, UNCERTAINTY ANALYSIS OF THE HYDROGEN PRODUCTION IN THE PHEBUS FPT-1 EXPERIMENT, NENE-2019, NENE-2019 PROCEEDINGS, PORTOROZ, SLOVENIA, 9-12.09.2019
15. P. DARNOWSKI, P. MAZGAJ, E. SKRZYPEK, MELCOR SIMULATIONS OF THE SBO IN GEN III PWR WITH EVMR, NENE-2019, NENE-2019 PROCEEDINGS, PORTOROZ, SLOVENIA, 9-12.09.2019
16. P. DOMITR, P. DARNOWSKI, M. SPIRZEWSKI, THE ASSESSMENT OF THE MELCOR2.2 CRITICAL FLOW MODELS AGAINST MARVIKEN CRITICAL FLOW TESTS AND TRACE V5.0 PATCH 5 CALCULATIONS, NURETH-2019 CONFERENCE PROCEEDINGS.
17. P. DARNOWSKI, A. MIKOŁAJCZAK, MONTE CARLO SIMULATIONS OF THE 1000 MWITH SFR OECD/NEA BENCHMARK WITH SERPENT CODE, EXTENDED ABSTRACT ACCEPTED TO BE PUBLISHED IN AIP PROCEEDINGS, ICNAAM 2018 INTERNATIONAL CONFERENCE, 13-18 SEPTEMBER 2018, GREECE, AIP CONFERENCE PROCEEDINGS 2116, 450067 (2019), DOI.ORG/10.1063/1.5114534
18. M. GRODZKI, P. DARNOWSKI, G. NIEWIŃSKI, MONTE CARLO ANALYSIS OF THE BATTERY TYPE HIGH-TEMPERATURE GAS COOLED REACTOR, PBEC-2017 XIII CONFERENCE ON RESEARCH AND DEVELOPMENT IN POWER ENGINEERING, 28.11.2017, WARSAW, EXTENDED VERSION PUBLISHED AS A PAPER.
19. P. IGNACZAK, P. OBRĘBSKI, P. DARNOWSKI, M. STĘPIEŃ, G. NIEWIŃSKI, DEVELOPMENT OF THE MONTE CARLO PWR FULL-CORE MODEL BASED ON THE AP1000 DESIGN WITH SERPENT COMPUTER CODE, PBEC-2017 XIII CONFERENCE ON RESEARCH AND DEVELOPMENT IN POWER ENGINEERING, 28.11.2017, WARSAW, EXTENDED VERSION PUBLISHED AS A PAPER.
20. P. DARNOWSKI, M. PAWLUCZYK, ANALYSIS OF THE BEAVRS BENCHMARK WITH SCALE AND PARCS, NUTECH-2017 INTERNATIONAL CONFERENCE, CRACOW, 12.09.2017, EXTENDED VERSION PUBLISHED AS A PAPER.
21. P. DARNOWSKI, K. POTAPCZYK, K. ŚWIRSKI, STUDIES ON THE RECRITICALITY POTENTIAL DURING FUKUSHIMA UNIT-3 CORE REFLOODING, 8TH ERMSAR CONFERENCE ON SEVERE ACCIDENT RESEARCH, ERMSAR-2017 PROCEEDINGS, WARSAW, POLAND, 16-18 MAY 2017
22. P. DARNOWSKI, K. POTAPCZYK, G. NIEWIŃSKI, M. GATKOWSKI, ANALYSIS OF THE RE-CRITICALITY POTENTIAL DURING THE EARLY IN-VESSEL PHASE OF A STATION BLACKOUT IN A BWR REACTOR, EUROPEAN NUCLEAR CONFERENCE - ENC 2016, CONFERENCE PROCEEDINGS ISBN 978-92-95064-27-0, 9-13 OCT 2016, WARSAW, POLAND
23. P. DARNOWSKI, K. POTAPCZYK, M. GATKOWSKI, G. NIEWIŃSKI, DEVELOPMENT OF ONE-WAY-COUPLING METHODOLOGY BETWEEN SEVERE ACCIDENT INTEGRAL CODE MELCOR AND MONTE CARLO NEUTRON TRANSPORT CODE SERPENT, PROEDIA ENGINEERING 157 (2016) 207-213, DOI: 10.1016/J.PROENG.2016.08.358
24. M. PAWLUCZYK, P. MAZGAJ, S. GURGACZ, M. GATKOWSKI, P. DARNOWSKI, LOSS OF COOLANT ACCIDENT IN PRESSURIZED WATER REACTOR PREDICTION OF A 6-INCH COLD LEG BREAK WITH RELAP5 AND CATHARE 2, PROEDIA ENGINEERING 157 (2016) 233-340, DOI: 10.1016/J.PROENG.2016.08.374
25. M. PAWLUCZYK, P. MAZGAJ, S. GURGACZ, M. GATKOWSKI, P. DARNOWSKI, LOSS OF COOLANT ACCIDENT IN PRESSURIZED WATER REACTOR PREDICTION OF A 6-INCH COLD LEG BREAK WITH RELAP5 AND CATHARE 2, ICCHMT 2016 CONFERENCE, ICCHMT PROCEEDINGS, CRACOW, POLAND, 23-26 MAY 2016
26. P. DARNOWSKI, E. SKRZYPEK, P. MAZGAJ, M. GATKOWSKI, SIMULATION OF LARGE BREAK LOSS OF COOLANT ACCIDENT WITHOUT SAFETY INJECTION FOR EPR REACTOR USING MELCOR COMPUTER CODE, 7TH ERMSAR CONFERENCE ON SEVERE ACCIDENT RESEARCH, ERMSAR 2017 PROCEEDINGS, MARSEILLE, FRANCE, 24-26 MAR 2015

27. A. DOMINIAK, M. RĄPAŁA, R. DOMAŃSKI, P. DARNOWSKI, INSULATING LAYERED COMPOSITE MATERIALS MANUFACTURING AND THERMAL DIFFUSIVITY MEASUREMENTS, THE 19TH INTERNATIONAL CONFERENCE ON COMPOSITE MATERIALS, 28 JULY-2 AUGUST 2013, MONTREAL, CANADA
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