

Janet Callahan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/796907/publications.pdf>

Version: 2024-02-01

81
papers

847
citations

687363

13
h-index

526287

27
g-index

87
all docs

87
docs citations

87
times ranked

732
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Teacher STEM Perception and Preparation: Inquiry-Based STEM Professional Development for Elementary Teachers. <i>Journal of Educational Research</i> , 2013, 106, 157-168. | 1.6 | 204 |
| 2 | Synthesis and characterization of mechanically alloyed and shock-consolidated nanocrystalline NiAl intermetallic. <i>Acta Materialia</i> , 1999, 47, 2567-2579. | 7.9 | 107 |
| 3 | Mechanical and radiographic properties of a shape memory polymer composite for intracranial aneurysm coils. <i>Materials Science and Engineering C</i> , 2006, 26, 1373-1379. | 7.3 | 87 |
| 4 | Nanoindentation measurements of combustion CVD Al ₂ O ₃ and YSZ films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 359, 112-118. | 5.6 | 48 |
| 5 | The combustion chemical vapor deposition of high temperature materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999, 267, 7-18. | 5.6 | 29 |
| 6 | Who Is Doing the Engineering, the Student or the Teacher? The Development and Use of a Rubric to Categorize Level of Design for the Elementary Classroom. <i>Journal of Technology Education</i> , 2015, 26, . | 0.8 | 28 |
| 7 | Combustion chemical vapor deposition of CeO ₂ film. <i>Thin Solid Films</i> , 1999, 347, 25-30. | 1.8 | 26 |
| 8 | Deposition of γ -alumina via combustion chemical vapor deposition. <i>Thin Solid Films</i> , 2006, 515, 1905-1911. | 1.8 | 23 |
| 9 | The effects of yttrium ion implantation on the oxidation of nickel-chromium alloys. II. Oxidation of yttrium implanted Ni-20Cr. <i>Oxidation of Metals</i> , 1992, 38, 139-161. | 2.1 | 22 |
| 10 | The effects of yttrium ion implantation on the oxidation of nickel-chromium alloys. I. The microstructures of yttrium implanted nickel-chromium alloys. <i>Oxidation of Metals</i> , 1992, 38, 125-138. | 2.1 | 21 |
| 11 | Combustion CVD of magnesium spinel and nickel spinel. <i>Surface and Coatings Technology</i> , 1997, 94-95, 137-143. | 4.8 | 16 |
| 12 | Oxidation of Ti ₃ SiC ₂ composites in air. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002, 33, 1737-1742. | 2.2 | 16 |
| 13 | Nanohardness and fracture toughness of combustion chemical vapor deposition deposited yttria stabilized zirconia- γ -alumina films. <i>Thin Solid Films</i> , 2005, 483, 211-217. | 1.8 | 14 |
| 14 | Silica thin films applied to Ni-20Cr alloy via combustion chemical vapor deposition. <i>Surface and Coatings Technology</i> , 1997, 94-95, 13-20. | 4.8 | 13 |
| 15 | Ion implantation-induced nanoscale particle formation in Al ₂ O ₃ and SiO ₂ via reduction. <i>Acta Materialia</i> , 1999, 47, 1497-1511. | 7.9 | 13 |
| 16 | The effect of ion-implanted yttrium on the oxidation of nickel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989, 116, 119-127. | 5.6 | 12 |
| 17 | Alumina Coatings Applied via Combustion Chemical Vapor Deposition and Their Effects on the Oxidation of a Ni-Base Chromia Former. <i>Journal of the Electrochemical Society</i> , 1998, 145, 3986-3994. | 2.9 | 12 |
| 18 | Title is missing!. <i>Journal of Materials Science</i> , 1997, 32, 3393-3399. | 3.7 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | High-spatial resolution compositionally-sensitive imaging of metallic particles using plasmon energy-loss electrons in TEM. <i>Micron</i> , 1998, 29, 191-199. | 2.2 | 8 |
| 20 | Electron diffraction measurements on chromium oxide. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993, 67, 849-863. | 0.6 | 7 |
| 21 | Testing Our Assumptions. <i>The Journal of College Student Retention: Research and Practice</i> , 2017, 19, 161-175. | 1.5 | 7 |
| 22 | A Systemic Solution: Elementary Teacher Preparation In Stem Expertise And Engineering Awareness. , 0, , . | | 7 |
| 23 | Nanocrystal Formation Via Yttrium Ion Implantation into Sapphire. <i>Materials Research Society Symposia Proceedings</i> , 1995, 396, 403. | 0.1 | 6 |
| 24 | Thermal Aging of Combustion Chemical Vapor Deposited Oxide Coatings. <i>Materials and Manufacturing Processes</i> , 1995, 10, 1007-1020. | 4.7 | 6 |
| 25 | Ion implantation induced formation of aluminum nanoparticles in alumina via reduction. <i>Surface and Coatings Technology</i> , 1998, 103-104, 409-414. | 4.8 | 6 |
| 26 | Support Model for Transfer Students Utilizing the STEM Scholarship Program. , 0, , . | | 6 |
| 27 | The Implementation Of An Online Mathematics Placement Exam And Its Effects On Student Success In Precalculus And Calculus. , 0, , . | | 6 |
| 28 | Improved oxidation resistance of group VB refractory metals by Al ⁺ ion implantation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1996, 27, 491-500. | 2.1 | 5 |
| 29 | Title is missing!. <i>Oxidation of Metals</i> , 1998, 50, 123-138. | 2.1 | 5 |
| 30 | Teaching Inquiry Based Stem In The Elementary Grades Using Manipulatives: A Systemic Solution Report. , 0, , . | | 5 |
| 31 | Coherent Calculus Course Design: Creating Faculty Buy-in for Student Success. , 0, , . | | 5 |
| 32 | Implantation parameters affecting aluminum nano-particle formation in alumina. <i>Journal of Materials Science</i> , 2001, 36, 1963-1973. | 3.7 | 4 |
| 33 | Connecting Science with Engineering: Using Inquiry and Design in a Teacher Professional Development Course. , 0, , . | | 4 |
| 34 | Integrated Pre Freshman Engineering And Precalculus Mathematics. , 0, , . | | 4 |
| 35 | Improving tantalum's oxidation resistance by Al ⁺ ion implantation. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1989, 20, 2101-2108. | 1.4 | 3 |
| 36 | A Prototype Continuous Flow Polymerase Chain Reaction LTCC Device. <i>Materials Science Forum</i> , 2007, 539-543, 523-528. | 0.3 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | The Idaho Science Talent Expansion Program: Freshman Orientation for STEM Majors. , 0, , . | | 3 |
| 38 | Promoting STEM Faculty Membersâ€™ Reflection on their Learning Perceptions and Teaching Practices. , 0, , . | | 3 |
| 39 | Thin layers near surfaces by ion implantation. Materials Characterization, 1992, 28, 89-101. | 4.4 | 2 |
| 40 | Enhancing STEM Majorsâ€™ College Trigonometry Learning through Collaborative Mobile Apps Coding. TechTrends, 2021, 65, 26-37. | 2.3 | 2 |
| 41 | Creating a STEM Identity: Investment with Return. , 0, , . | | 2 |
| 42 | Enhancing Precalculus Curricula With E Learning: Implementation And Assessment. , 0, , . | | 2 |
| 43 | Where do We Go from Here? Conversations with K-6 Principals Following Three Years of Engineering Education Professional Development for Their Faculty. , 0, , . | | 2 |
| 44 | What Women Want: Female Friendly Faculty Recruitment. , 0, , . | | 2 |
| 45 | Both Sides of the Equation: Learner and Teacher. , 0, , . | | 2 |
| 46 | An Elective Mathematics Readiness Initiative for STEM Students. , 2015, , 26.181.1. | | 1 |
| 47 | Synthesis and Characterization of γ -Alumina Films Via Combustion Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2000, 616, 241. | 0.1 | 1 |
| 48 | Immuno-SEM characterization of developing bovine cartilage. Materials Science and Engineering C, 2008, 28, 341-346. | 7.3 | 1 |
| 49 | Listening and Negotiation. , 0, , . | | 1 |
| 50 | Objectives and Outcomes Jabberwocky. Jom, 2016, 68, 2021-2023. | 1.9 | 1 |
| 51 | Improving Students' Learning In Precalculus With E Learning Activities And Through Analyses Of Students' Learning Styles And Motivational Characteristics. , 0, , . | | 1 |
| 52 | Longitudinal Success of Calculus I Reform. , 0, , . | | 1 |
| 53 | Work in Progress: Institutional Context and the Implementation of the Redshirt in Engineering Model at Six Universities. , 0, , . | | 1 |
| 54 | Revealing Student Misconceptions and Instructor Blind Spots with Muddiest Point Formative Feedback. , 0, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Where The Girls Are: Applying An Integrated Marketing Approach To Attract Girls Into Engineering Programs. , 0, , . | | 1 |
| 56 | Evolution of a First-year Engineering Course. , 2015, , 26.700.1. | | 0 |
| 57 | Synthesis and Characterization of Nanosized NiAl Particles. Materials Research Society Symposia Proceedings, 1998, 520, 205. | 0.1 | 0 |
| 58 | The Effects of Nanostructure on the Strengthening of NiAl. Materials Research Society Symposia Proceedings, 1998, 552, 1. | 0.1 | 0 |
| 59 | The Isothermal Oxidation Response of a Gamma-Titanium Aluminide Alloy. Materials Science Forum, 2003, 426-432, 2437-2442. | 0.3 | 0 |
| 60 | C0113 Impact of direct thrombin and direct F Xa inhibitor anticoagulants on ACL top family fibrinogen assays. Thrombosis Research, 2012, 130, S105-S106. | 1.7 | 0 |
| 61 | The decision, implementation and assessment of a credit-bearing activity class by faculty inÂresidence: A case study. Work, 2015, 52, 481-489. | 1.1 | 0 |
| 62 | Living with students: Lessons learned while pursuing tenure, administration, and raising a family. Work, 2015, 52, 497-501. | 1.1 | 0 |
| 63 | Imaging of Aluminum Nanoparticles Embedded in an Amorphous Sapphire Substrate Using Plasmon Energy-loss Electrons in TEM. Microscopy and Microanalysis, 2018, 24, 1716-1717. | 0.4 | 0 |
| 64 | Calculus Reform - Increasing STEM Retention and Post-Requisite Course Success While Closing the Retention Gap for Women and Underrepresented Minority Students. , 0, , . | | 0 |
| 65 | Listening and Negotiation II. , 0, , . | | 0 |
| 66 | Ten Years Later: Where are they Now?. , 0, , . | | 0 |
| 67 | An Innovative Method To Realistically Track Engineering Student Retention And Academic Progress. , 0, , . | | 0 |
| 68 | Establishing Doctoral Programs in Electrical Engineering, Materials Science and Engineering, and Computing in an Emerging Research Institution: Lessons Learned and Best Practices. , 0, , . | | 0 |
| 69 | Managing Dual Academic Careers. , 0, , . | | 0 |
| 70 | Using Online Assessment and Practice to Achieve Better Retention and Placement in Precalculus and Calculus. , 0, , . | | 0 |
| 71 | The Impact of Volunteering at a Girls Outreach Activity on Community Formation. , 0, , . | | 0 |
| 72 | Developing And Assessing Engineering Based Modules For A Freshman Engineering Class. , 0, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|----|-----------|
| 73 | Board 105: The Redshirt in Engineering Consortium: Progress and Early Insights. , 0, , . | | 0 |
| 74 | Improving Campus Climate For Faculty From Underrepresented Groups. , 0, , . | | 0 |
| 75 | The Party's Over: Sustaining Support Programs When The Funding Is Done. , 0, , . | | 0 |
| 76 | Effects Of Service Learning Implemented In An Introductory Engineering Course On Student Attitudes And Abilities In The Context Of Abet Outcomes. , 0, , . | | 0 |
| 77 | Benefits Of A Tutorial Mathematics Program For Engineering Students Enrolled In Precalculus: A Template For Assessment. , 0, , . | | 0 |
| 78 | Panel discussion on the History of the Women in Engineering Division: Reflections from Past Chairs of the Division. , 0, , . | | 0 |
| 79 | Successes Of An Engineering Residential College Program Within An Emerging Residential Culture. , 0, , . | | 0 |
| 80 | The 2015, 2016, and 2017 Best Diversity Papers: Summary and Perspective. , 0, , . | | 0 |
| 81 | The Crux: Promoting Success in Calculus II. , 0, , . | | 0 |