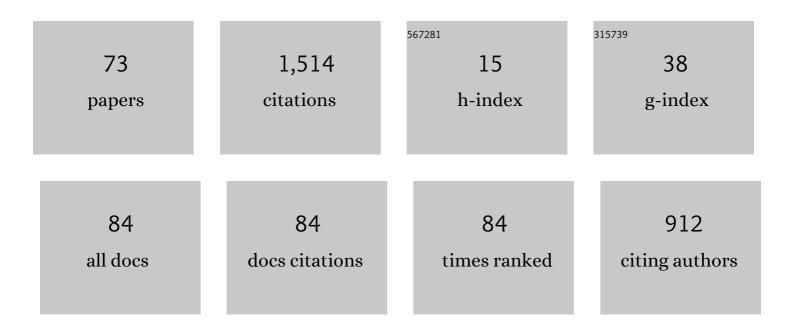
Georg J Schmitz

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | A Phase-Field Perspective on Mereotopology. AppliedMath, 2022, 2, 54-103. | 0.6 | 5 |
| 2 | Cloud-Based ICME Software Training. Education Sciences, 2021, 11, 5. | 2.6 | 3 |
| 3 | Theory-training deep neural networks for an alloy solidification benchmark problem. Computational Materials Science, 2020, 180, 109687. | 3.0 | 14 |
| 4 | Quantitative mereology: An essay to align physics laws with a philosophical concept. Physics Essays, 2020, 33, 479-488. | 0.4 | 4 |
| 5 | AixViPMaP®—an Operational Platform for Microstructure Modeling Workflows. Integrating Materials and Manufacturing Innovation, 2019, 8, 122-143. | 2.6 | 11 |
| 6 | Superconducting YBCO Foams as Trapped Field Magnets. Materials, 2019, 12, 853. | 2.9 | 20 |
| 7 | Current Flow and Flux Pinning Properties of YBCO Foam Struts. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5. | 1.7 | 7 |
| 8 | Flux Pinning Analysis of Superconducting YBCO Foam Struts. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5. | 1.7 | 6 |
| 9 | Entropy and Geometric Objects. Proceedings (mdpi), 2018, 2, 153. | 0.2 | 0 |
| 10 | Entropy and Geometric Objects. Entropy, 2018, 20, 453. | 2.2 | 6 |
| 11 | An ICME Process Chain for Diffusion Brazing of Alloy 247. Integrating Materials and Manufacturing Innovation, 2018, 7, 70-85. | 2.6 | 9 |
| 12 | Integrated Computational Materials and Production Engineering (ICMPE). , 2017, , 253-364. | | 1 |
| 13 | Scenario for Data Exchange at the Microstructure Scale. Integrating Materials and Manufacturing Innovation, 2017, 6, 127-133. | 2.6 | 2 |
| 14 | A Combined Entropy/Phase-Field Approach to Gravity. Entropy, 2017, 19, 151. | 2.2 | 3 |
| 15 | A Flowchart Scheme for Information Retrieval in ICME Settings. Minerals, Metals and Materials Series, 2017, , 57-68. | 0.4 | 2 |
| 16 | Towards Bridging the Data Exchange Gap Between Atomistic Simulation and Larger Scale Models. Minerals, Metals and Materials Series, 2017, , 45-55. | 0.4 | 0 |
| 17 | Towards a metadata scheme for the description of materials – the description of microstructures. Science and Technology of Advanced Materials, 2016, 17, 410-430. | 6.1 | 19 |
| 18 | Development and application of a new freckle criterion for technical remelting processes. MATEC Web of Conferences, 2014, 14, 05002. | 0.2 | 1 |

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| # | Article | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | ICMEg $\hat{a} \in \hat{a}$ the Integrated Computational Materials Engineering expert group $\hat{a} \in \hat{a}$ a new European coordination action. Integrating Materials and Manufacturing Innovation, 2014, 3, 20-24. | 2.6 | 20 |
| 20 | Phase-Field Modeling and Experimental Observation of Microstructures in Solidifying Sn-Ag-Cu Solders. Journal of Electronic Materials, 2013, 42, 2658-2666. | 2.2 | 5 |
| 21 | Multi-Phase-Field Modeling of Solidification in Technical Steel Grades. Transactions of the Indian Institute of Metals, 2012, 65, 613-615. | 1.5 | 13 |
| 22 | Towards integrative computational materials engineering of steel components. Production Engineering, 2011, 5, 373-382. | 2.3 | 14 |
| 23 | Creep strength of a binary Al ₆₂ Ti ₃₈ alloy. International Journal of Materials Research, 2010, 101, 676-679. | 0.3 | 3 |
| 24 | Simulation of microstructure formation in technical aluminum alloys using the multiphase-field method. Transactions of the Indian Institute of Metals, 2009, 62, 299-304. | 1.5 | 16 |
| 25 | Creep strength of centrifugally cast Al-rich TiAl alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 510-511, 373-376. | 5.6 | 12 |
| 26 | Unidirectional Solidification and Single Crystal Growth of Al-rich Ti-Al Alloys. Materials Research Society Symposia Proceedings, 2008, 1128, 30301. | 0.1 | 0 |
| 27 | In situ TEM Observation of Precipitation Reactions in Ti40Al60 and Ti38Al62 Alloys and Symmetry Relations of the Phases Involved. , 2008, , . | | 0 |
| 28 | Fabrication of Micropatterned Surfaces by Improved Investment Casting. Advanced Engineering Materials, 2007, 9, 265-270. | 3.5 | 9 |
| 29 | A novel process for textured thick film YBa2Cu3Oycoated conductors based on a constitutional gradients principle. Superconductor Science and Technology, 2005, 18, 869-873. | 3.5 | 3 |
| 30 | Manufacture of high-aspect-ratio micro-hair sensor arrays. Journal of Micromechanics and Microengineering, 2005, 15, 1904-1910. | 2.6 | 30 |
| 31 | Modern preparation methods of oriented thick films of superconducting cuprates. Crystallography Reports, 2004, 49, 233-239. | 0.6 | 2 |
| 32 | Properties of YBa2Cu3Oy-textured superconductor foams. Physica C: Superconductivity and Its Applications, 2004, 408-410, 655-656. | 1.2 | 9 |
| 33 | Transport properties of hot-forming textured Bi:2223 and single domain YBa2Cu3Oy fabric materials. Physica C: Superconductivity and Its Applications, 2003, 386, 202-205. | 1.2 | 2 |
| 34 | Orientations of Y2BaCuO5 and YBCO within melt-textured and directional solidified samples studied by EBSD. Physica C: Superconductivity and Its Applications, 2003, 392-396, 589-595. | 1.2 | 6 |
| 35 | Magnetic and transport properties of YBa2Cu3Oy superconductor foams. Physica C: Superconductivity and Its Applications, 2003, 390, 286-290. | 1.2 | 22 |
| 36 | 3D simulation of temperature, electric field and current density evolution in superconducting components. Superconductor Science and Technology, 2003, 16, 645-653. | 3.5 | 29 |

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| 37 | Processing of single domain Y–Ba–Cu–O with pre-defined 3D interconnected porosity for bulk reinforcement. Superconductor Science and Technology, 2003, 16, L40-L43. | 3.5 | 7 |
| 38 | Processing of Y2BaCuO5foams. Superconductor Science and Technology, 2003, 16, 608-612. | 3.5 | 24 |
| 39 | Single domain YBa2Cu3Oythick films on metallic substrates. Superconductor Science and Technology, 2003, 16, 402-406. | 3.5 | 3 |
| 40 | Superconducting foams. Superconductor Science and Technology, 2002, 15, L21-L24. | 3.5 | 65 |
| 41 | Processing, microstructure and transport currents of (100)/(100) and (110)/(110) domain boundaries in multi-seeded YBa2Cu3Oyfabrics. Superconductor Science and Technology, 2002, 15, 48-53. | 3.5 | 8 |
| 42 | Recent developments in processing and properties of large grain superconducting YBCO fabrics. Superconductor Science and Technology, 2002, 15, 727-734. | 3.5 | 8 |
| 43 | Electrical performance of single domain YBa2Cu3Oy fabrics. Physica C: Superconductivity and Its Applications, 2002, 366, 93-101. | 1.2 | 12 |
| 44 | Effects of surface relief on the texture formation of melt-solidified YBa2Cu3Oz thick films on metal substrates. Physica C: Superconductivity and Its Applications, 2002, 372-376, 842-845. | 1.2 | 5 |
| 45 | Microstructure and transport properties of melt-textured joint of YBCO. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1187-1190. | 1.2 | 6 |
| 46 | Low temperature processing of single domain YBa2Cu3Oy thick films from Y2O3 fabrics on Ag–Pd alloy substrates. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1200-1203. | 1.2 | 6 |
| 47 | Transport properties of thick film YBa2Cu3Oy fabrics. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1631-1634. | 1.2 | 4 |
| 48 | (RE)BaCuO melt processing: from bulks towards thick films. Physica C: Superconductivity and Its Applications, 2002, 378-381, 607-616. | 1.2 | 4 |
| 49 | Texture formation in melt-solidified YBa2Cu3Oz thick films by artificial surface reliefs. Journal of Crystal Growth, 2002, 241, 512-534. | 1.5 | 13 |
| 50 | Development of multiphase ribbons as substrates for biaxially textured (RE)–Ba–Cu–O thick film coatings. Physica C: Superconductivity and Its Applications, 2001, 354, 342-348. | 1.2 | 5 |
| 51 | Directional solidification and microstructural studies of the peritectic Y ₂ BaCuO ₅ phase. Journal of Materials Research, 2001, 16, 1123-1134. | 2.6 | 1 |
| 52 | Single-domain Yba2Cu3Oy thick films and fabrics prepared by an infiltration and growth process. Journal of Materials Research, 2001, 16, 955-966. | 2.6 | 17 |
| 53 | Melt-texture joining of YBa2Cu3Oybulks. Superconductor Science and Technology, 2001, 14, 363-370. | 3.5 | 35 |
| 54 | A process for a new form of YBa2Cu3Oy having dimensions of thick films and microstructure of single domain bulks. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2463-2464. | 1.2 | 3 |

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| 55 | Mono-domain YBa2Cu3Oysuperconductor fabrics prepared by an infiltration process. Superconductor Science and Technology, 2000, 13, 716-721. | 3.5 | 24 |
| 56 | Simulation of Crystal Growth in (RE)Ba2Cu3Ox. , 2000, , 423-427. | | 0 |
| 57 | Simulation of phase transitions in multiphase systems: peritectic solidification of (RE)Ba2Cu3O7-x superconductors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 53, 23-27. | 3.5 | 8 |
| 58 | Synthesis of polycrystalline BaZrO3 coatings. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 53, 115-118. | 3.5 | 14 |
| 59 | Texturing of (RE)BaCuO thick films by geometrical arrangement of reactive precursors. Superconductor Science and Technology, 1998, 11, 950-953. | 3.5 | 7 |
| 60 | Microstructural aspects of joining superconductive components using solder. Superconductor Science and Technology, 1998, 11, 73-75. | 3.5 | 17 |
| 61 | Modeling of Peritectic YBa ₂ Cu ₃ O _{7â^'<i>x</i>} Growth Using Transparent Organic Analogues. Journal of Materials Research, 1997, 12, 2002-2008. | 2.6 | 5 |
| 62 | Macroscopic and microscopic modeling of the growth of YBaCuO bulk material. IEEE Transactions on Applied Superconductivity, 1997, 7, 1739-1742. | 1.7 | 3 |
| 63 | Isothermal production of uniaxially textured YBCO superconductors using constitutional gradients. Physica C: Superconductivity and Its Applications, 1997, 275, 205-210. | 1.2 | 12 |
| 64 | Modelling of REBaCuO growth using transparent organic analogues and numerical simulations. Physica C: Superconductivity and Its Applications, 1997, 282-287, 519-520. | 1.2 | 3 |
| 65 | A phase field concept for multiphase systems. Physica D: Nonlinear Phenomena, 1996, 94, 135-147. | 2.8 | 778 |
| 66 | YBCO Melt-processing development by numerical simulation. Journal of Low Temperature Physics, 1996, 105, 1451-1456. | 1.4 | 7 |
| 67 | Combined time-of-flight and mass spectroscopy for determination of the temperature of undercooled melts. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 178, 93-97. | 5.6 | 0 |
| 68 | Influence of Y2BaCuO5 particles on the growth morphology of peritectically solidified YBa2Cu3O7â^'x. Journal of Materials Research, 1993, 8, 2774-2779. | 2.6 | 79 |
| 69 | Containerless solidification of YBa2Cu3O7-x in a drop tube. Journal of Materials Research, 1993, 8, 411-414. | 2.6 | 11 |
| 70 | Improved pinning in Bi2Sr2Ca1Cu2O8by bubbles or voids?. Superconductor Science and Technology, 1992, 5, S180-S183. | 3.5 | 0 |
| 71 | Controlled microstructure formation in high temperature superconductors by melt processing. Journal of the Less Common Metals, 1990, 164-165, 1413-1419. | 0.8 | 3 |
| 72 | Improved contact resistances by melt dipping of Y1BA2CU3O7 â^' x. Journal of the Less Common Metals, 1990, 164-165, 1566-1570. | 0.8 | 1 |

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| 73 | ICME-A Mere Coupling of Models or a Discipline of Its Own?. , 0, , 285-290. | | 1 |