

# PUBLICATIONS

NICOLAOS KAPOULEAS

- [1] Nikolaos Kapouleas and Jiahua Zou, *Index and nullity of minimal surface doublings, I*, arXiv:2512.07734 (2025).
- [2] Nikolaos Kapouleas and Peter McGrath, *New minimal surface doublings of the Clifford torus and contributions to questions of Yau*, arXiv:2411.00613v1 (2024).
- [3] Nikolaos Kapouleas and Jiahua Zou, *Minimal hypersurfaces in  $\mathbb{S}^4(1)$  by doubling the equatorial  $\mathbb{S}^3$* , arXiv:2405.18283v2 (2024).
- [4] Nikolaos Kapouleas and David Wiygul, *New low-genus desingularizations of three Clifford tori and related characterizations*, arXiv:2306.09159v2 (2024).
- [5] Nikolaos Kapouleas and Peter McGrath, *Free boundary minimal annuli immersed in the unit 3-ball*, arXiv:2212.09680 (2022).
- [6] Nikolaos Kapouleas and Jiahua Zou, *Free boundary minimal surfaces in the Euclidean three-ball close to the boundary*, Amer. J. Math. (to appear); arXiv:2111.11308 (2021).
- [7] Nikolaos Kapouleas and Peter McGrath, *Generalizing the Linearized Doubling approach, I: General theory and new minimal surfaces and self-shrinkers*, Camb. J. Math. **11** (2023), no. 2, 299–439.
- [8] Nikolaos Kapouleas and David Wiygul, *Free boundary minimal surfaces with connected boundary in the 3-ball by tripling the equatorial disc*, J. Differential Geom. **123** (2023), no. 2, 311–362.
- [9] Christine Breiner, Nikolaos Kapouleas, and Stephen Kleene, *Conservation laws and gluing constructions for constant mean curvature (hyper)surfaces*, Notices Amer. Math. Soc. **69** (2022), no. 5, 762–773. MR4415896
- [10] Nikolaos Kapouleas and David Wiygul, *The Lawson surfaces are determined by their symmetries and topology*, J. Reine Angew. Math. **786** (2022), 155–173. MR4434746
- [11] ———, *Minimal surfaces in the three-sphere by desingularizing intersecting Clifford tori*, Math. Ann. **383** (2022), no. 1-2, 119–170. MR4444117
- [12] Christine Breiner and Nikolaos Kapouleas, *Complete constant mean curvature hypersurfaces in Euclidean space of dimension four or higher*, Amer. J. Math. **143** (2021), no. 4, 1161–1259. MR4291252

- [13] Nikolaos Kapouleas and Martin Man-chun Li, *Free boundary minimal surfaces in the unit three-ball via desingularization of the critical catenoid and the equatorial disc*, J. Reine Angew. Math. **776** (2021), 201–254. MR4279102
- [14] Nikolaos Kapouleas and David Wiygul, *The index and nullity of the Lawson surfaces  $\xi_{g,1}$* , Camb. J. Math. **8** (2020), no. 2, 363–405. MR4091028
- [15] Nikolaos Kapouleas and Peter McGrath, *Minimal surfaces in the round three-sphere by doubling the equatorial two-sphere, II*, Comm. Pure Appl. Math. **72** (2019), no. 10, 2121–2195. MR3998638
- [16] Nikolaos Kapouleas, Stephen James Kleene, and Niels Martin Møller, *Mean curvature self-shrinkers of high genus: non-compact examples*, J. Reine Angew. Math. **739** (2018), 1–39. MR3808256
- [17] Nikolaos Kapouleas, *Minimal surfaces in the round three-sphere by doubling the equatorial two-sphere, I*, J. Differential Geom. **106** (2017), no. 3, 393–449. MR3680553
- [18] Simon Brendle and Nikolaos Kapouleas, *Gluing Eguchi-Hanson metrics and a question of Page*, Comm. Pure Appl. Math. **70** (2017), no. 7, 1366–1401. MR3666569
- [19] Christine Breiner and Nikolaos Kapouleas, *Embedded constant mean curvature surfaces in Euclidean three-space*, Math. Ann. **360** (2014), no. 3-4, 1041–1108. MR3273652
- [20] Mark Haskins and Nikolaos Kapouleas, *The geometry of  $\mathrm{SO}(p) \times \mathrm{SO}(q)$ -invariant special Lagrangian cones*, Comm. Anal. Geom. **21** (2013), no. 1, 171–250. MR3046941
- [21] ———, *Closed twisted products and  $\mathrm{SO}(p) \times \mathrm{SO}(q)$ -invariant special Lagrangian cones*, Comm. Anal. Geom. **20** (2012), no. 1, 95–162. MR2903102
- [22] Nikolaos Kapouleas, *Doubling and desingularization constructions for minimal surfaces*, Surveys in geometric analysis and relativity, 2011, pp. 281–325. MR2906930
- [23] Nikolaos Kapouleas and Seong-Deog Yang, *Minimal surfaces in the three-sphere by doubling the Clifford torus*, Amer. J. Math. **132** (2010), no. 2, 257–295. MR2654775
- [24] Mark Haskins and Nikolaos Kapouleas, *Gluing constructions of special Lagrangian cones*, Handbook of geometric analysis. No. 1, 2008, pp. 77–145. MR2483363
- [25] ———, *Special Lagrangian cones with higher genus links*, Invent. Math. **167** (2007), no. 2, 223–294. MR2270454
- [26] Nikolaos Kapouleas, *Constructions of minimal surfaces by gluing minimal immersions*, Global theory of minimal surfaces, 2005, pp. 489–524. MR2167274
- [27] ———, *Complete embedded minimal surfaces of finite total curvature*, J. Differential Geom. **47** (1997), no. 1, 95–169. MR1601434
- [28] ———, *On desingularizing the intersections of minimal surfaces*, Proceedings of the 4th International Congress of Geometry (Thessaloniki, 1996), 1997, pp. 34–41. MR1470959

- [29] ———, *Constant mean curvature surfaces in Euclidean spaces*, Proceedings of the International Congress of Mathematicians, Vol. 1, 2 (Zürich, 1994), 1995, pp. 481–490. MR1403948
- [30] ———, *Constant mean curvature surfaces constructed by fusing Wente tori*, Invent. Math. **119** (1995), no. 3, 443–518. MR1317648
- [31] Nicolaos Kapouleas, *Constant mean curvature surfaces constructed by fusing Wente tori*, Proc. Nat. Acad. Sci. U.S.A. **89** (1992), no. 12, 5695–5698. MR1165926
- [32] ———, *Compact constant mean curvature surfaces in Euclidean three-space*, J. Differential Geom. **33** (1991), no. 3, 683–715. MR1100207
- [33] ———, *Slowly rotating drops*, Comm. Math. Phys. **129** (1990), no. 1, 139–159. MR1046281
- [34] ———, *Complete constant mean curvature surfaces in Euclidean three-space*, Ann. of Math. (2) **131** (1990), no. 2, 239–330. MR1043269
- [35] ———, *Constant mean curvature surfaces in  $E(3)$* , ProQuest LLC, Ann Arbor, MI, 1988. Thesis (Ph.D.)—University of California, Berkeley. MR2636895
- [36] ———, *Constant mean curvature surfaces in Euclidean three-space*, Bull. Amer. Math. Soc. (N.S.) **17** (1987), no. 2, 318–320. MR903742

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