

LIST OF PUBLICATIONS, DEPARTMENT OF MATHEMATICS, UNIVERSITY OF THE AEGEAN  
(2013-2021)

Publications in international peer-reviewed journals

2021	<p>[1] <b>Anoussis, M., Felouzis, K., Tsaprounis, K.</b>, "Almost disjoint families and ultrapowers" <i>Journal of Logic &amp; Analysis</i>, <b>13</b>(4), pp. 1-13, 2021.</p> <p>[2] <b>Diamantidis, S.</b>, Horikis, T.P., Karachalios, N.I., "Exciting extreme events in the damped and AC-driven NLS equation through plane-wave initial conditions", <i>Chaos</i>, <b>31</b>(5), 053103, 2021.</p> <p>[3] Gialelis, N., <b>Karachalios, N.I.</b>, Stratis, I.G., "Regularity of nonvanishing-at infinity or at the boundary-solutions of the defocusing nonlinear Schrödinger equation", <i>Communications in Partial Differential Equations</i>, <b>46</b>(2), pp. 233-281, 2021.</p> <p>[4] <b>Keremedis, K.</b>, Tachtsis, E., Wajch, E., "Second-countable compact Hausdorff spaces as remainders in ZF and two notions of infiniteness", <i>Topology and its applications</i>, article in press, 2021.</p> <p>[5] Drosinou, O., Kavallaris, N.I., <b>Nikolopoulos, C.V.</b>, "A study of a nonlocal problem with Robin boundary conditions arising from technology", <i>Mathematical Methods in the Applied Sciences</i>, article in press, 2021.</p> <p>[6] <b>Kostas D. Housiadas</b>, "An active body in a Phan-Thien &amp; Tanner fluid; the effect of the third polar squirmering mode", <i>Physics of Fluids</i>, <b>33</b>(4), 2021.</p> <p>[7] <b>Kostas D. Housiadas</b>, Jeremy P. Binagia, &amp; Eric S.G. Shaqfeh, "Squirmers with Swirl at Low Weissenberg Number", <i>Journal of Fluid Mechanics</i>, vol. 911, A16, 2021.</p>
2020	<p>[1] Kyriakidis, E.G., <b>Dimitrakos, T.D.</b>, Karamatsoukis, C.C., "A stochastic single vehicle routing problem with predefined sequence of customers and collection of two similar materials", <i>Methodology and Computing in Applied Probability</i>, <b>22</b>(4), pp. 1559-1582, 2020.</p> <p>[2] Karamatsoukis, C.C., Kyriakidis, E.G., <b>Dimitrakos, T.D.</b>, "Two-compartment stochastic single vehicle routing problems with simultaneous pickups and deliveries from N ordered customers", <i>Int. JI of Systems Science: Operations and Logistics</i>, 2020.</p> <p>[3] Abbas, G., Kevrekidis, P.G., Allen, J.E., Koukouloyannis, V., Frantzeskakis, D.J., <b>Karachalios, N.</b>, "Propagation of periodic wave trains along the magnetic field in a collision-free plasma", <i>Jl of Physics A: Mathematical and Theoretical</i>, <b>53</b>(42), 2020.</p> <p>[4] <b>Karachalios, N.I.</b>, Kyriazopoulos, P., Vetas, K., "The Lefever-Lejeune nonlinear lattice: Convergence dynamics and the structure of equilibrium states", <i>Physica D: Nonlinear Phenomena</i>, <b>409</b>, 2020.</p> <p>[5] Allen, J.E., Frantzeskakis, D.J., <b>Karachalios, N.I.</b>, Kevrekidis, P.G., <b>Koukouloyannis, V.</b>, "Solitary and periodic waves in collisionless plasmas: The Adlam-Allen model revisited", <i>Physical Review E</i>, <b>102</b>(1), 2020.</p> <p>[6] Sullivan, J., Charalampidis, E.G., Cuevas-Maraver, J., Kevrekidis, P.G., <b>Karachalios, N.I.</b>, "Kuznetsov-Ma breather-like solutions in the Salerno model", <i>European Physical JI Plus</i>, <b>135</b>(5), 2020.</p> <p>[7] Fotopoulos, G., Frantzeskakis, D.J., <b>Karachalios, N.I.</b>, Kevrekidis, P.G., <b>Koukouloyannis, V.</b>, Vetas, K., "Extreme wave events for a nonlinear Schrödinger equation with linear damping and Gaussian driving", <i>Communications in Nonlinear Science and Numerical Simulation</i>, <b>82</b>, 2020.</p> <p>[8] Fotopoulos, G., <b>Karachalios, N.I.</b>, <b>Koukouloyannis, V.</b>, Vetas, K., "The linearly damped nonlinear Schrodinger equation with localized driving: spatiotemporal decay estimates and</p>

	<p>the emergence of extreme wave events”, <i>Zeitschrift fur Angewandte Mathematik und Physik</i>, <b>71</b>(1), 2020.</p> <p>[9] <b>Keremedis, K.</b>, Wajch, E., “On Loeb and sequential spaces in ZF”, <i>Topology and its Applications</i>, <b>280</b>, 107279, 2020.</p> <p>[10] <b>Keremedis, K.</b>, Tachtsis, E., “Cellularity of infinite Hausdorff spaces in ZF”, <i>Topology and its Applications</i>, <b>274</b>, 107104, 2020.</p> <p>[11] <b>Keremedis, K.</b>, Wajch, E., “On densely complete metric spaces and extensions of uniformly continuous functions in ZF”, <i>Jl of Convex Analysis</i>, <b>27</b>(40), 2020.</p> <p>[12] <b>Kofinas, C.E., Metaftsis, V.</b>, Papistas, A.I., “IA-automorphisms and Lie algebras related to the McCool group”, <i>Jl of Algebra</i>, <b>542</b>, pp. 162-189, 2020.</p> <p>[13] Muntean, A., <b>Nikolopoulos, C.</b>, “Colloidal transport in locally periodic evolving porous-media – An upscaling exercise”, <i>SIAM Jl of Applied Mathematics</i>, <b>80</b>(1), pp. 448-475, 2020.</p> <p>[14] Kotis, K., Spiliotopoulos, D., <b>Papasalouros, A.</b>, “Intelligent Collaborative Authoring of Place-Based, Cross-Cultural and Media-Rich Experiences”, <i>Challenges</i>, <b>11</b>(1), 2020.</p> <p>[15] Lorenzo Fusi, <b>Kostas D. Housiadas</b>, &amp; George C. Georgiou, “Flow of a Bingham fluid in a pipe of variable radius”, <i>Journal of Non-Newtonian Fluid Mechanics</i>, <b>285</b>, 104393, 2020.</p> <p>[16] Jeremy P. Binagia, Ardella Phoa, <b>Kostas D. Housiadas</b>, &amp; Eric S.G. Shaqfeh, “Swimming with swirl in a viscoelastic fluid”, <i>Journal of Fluid Mechanics</i>, vol. 900, A4, 2020.</p> <p>[17] <b>Kostas D. Housiadas</b>, &amp; Roger I. Tanner, “The analytical solution of the Brinkman model for non-Brownian suspensions with Navier slip on the particles”, <i>International Journal of Multiphase Flow</i>, <b>129</b>, 103298, 2020.</p> <p>[18] <b>Kostas D. Housiadas</b>, “Viscoelastic fluids with pressure-dependent viscosity; exact analytical solutions and their singularities in unidirectional Poiseuille flows”, <i>International Journal of Engineering Science</i>, <b>147</b>, 2020.</p> <p>[19] Spyros D. Gkormpatsis, Evgenios A. Gryparis, <b>Kostas D. Housiadas</b>, &amp; Antony N. Beris, “Steady slip translation in a viscoelastic fluid with slip on the surface of the sphere”, <i>Journal of Non-Newtonian Fluid Mechanics</i>, <b>275</b>, 104217, 2020.</p>
2019	<p>[1] <b>Anoussis, M.</b>, Ozawa, N., Todorov, I.G., “Norms of vector functionals”, <i>Proceedings of the American Mathematical Society</i>, <b>147</b>(5), pp. 2057-2068, 2019.</p> <p>[2] <b>Anoussis, M.</b>, Katavolos, A., Todorov, I.G., “Bimodules over <math>VN(G)</math>, harmonic operators and the non-commutative Poisson boundary”, <i>Studia Mathematica</i>, <b>249</b>(2), pp. 193-213, 2019.</p> <p>[3] Kyriakidis, E.G., <b>Dimitrakos, T.D.</b>, “Stochastic single vehicle routing problem with ordered customers and partial fulfilment of demands”, <i>Int. Jl of Systems Science: Operations and Logistics</i>, <b>6</b>(3), pp. 285-299, 2019.</p> <p>[4] Kyriakidis, E.G., <b>Dimitrakos, T.D.</b>, Karamatsoukis, C.C., “Optimal delivery of two similar products to N ordered customers with product preferences”, <i>Int Jl of Production Economics</i>, <b>209</b>, pp. 194-204, 2019.</p> <p>[5] Fotopoulos, G., <b>Karachalios, N.I.</b>, Koukouloyannis, V., Vetas, K., “Collapse dynamics for the discrete nonlinear Schrödinger equation with gain and loss”, <b>72</b>, pp. 213-231, 2019.</p> <p>[6] <b>Karachalios, N.I.</b>, Kyriazopoulos, P., Vetas, K., “Excitation of Peregrine-Type waveforms from vanishing initial conditions in the presence of periodic forcing”, <i>Zeitschrift fur Naturforschung – Section A Jl of Physical Sciences</i>, <b>74</b>(5), pp. 371-382, 2019.</p> <p>[7] Frantzeskakis, D.J., <b>Karachalios, N.I.</b>, Kevrekidis, P.G., Koukouloyannis, V., Vetas, K., “Dynamical transitions between equilibria in a dissipative Klein-Gordon lattice”, <i>Jl of Mathematical Analysis and Applications</i>, <b>472</b>(1), pp. 546-576, 2019.</p>

	<p>[8] <b>Keremedis, K.</b>, "On lightly and countably compact spaces in ZF", <i>Quaestiones Mathematicae</i>, <b>42</b>(5), pp. 579-592, 2019.</p> <p>[9] <b>Keremedis, K.</b>, Wajch, E., "Hausdorff compactifications in ZF", <i>Topology and its Applications</i>, <b>258</b>, pp. 79-99, 2019.</p> <p>[10] <b>Keremedis, K.</b>, Ozel, C., Piekosz, A., Al Shumrani, M.A., Wajch, E., "Compact complement topologies and k-spaces", <i>Filomat</i>, <b>33</b>(7), pp. 2061-2071, 2019.</p> <p>[11] <b>Magiatis, C.</b>, "Elementary operators on the algebra of adjointable operators on a Hilbert module", <i>Jl of Mathematical Analysis and Applications</i>, <b>475</b>(1), pp. 628-640, 2019.</p> <p>[12] <b>Nikolopoulos, C.V.</b>, "Macroscopic models for calcium carbonate corrosion due to sulfation. Variation of diffusion and volume expansion", <i>European Jl of Applied Mathematics</i>, <b>30</b>(3), pp. 529-556, 2019.</p> <p>[13] Giannakas, F., <b>Papasalouros, A.</b>, Kambourakis G., Gritzalis, S., "A comprehensive cybersecurity learning platform for elementary education" <i>Information Security Journal</i>, <b>28</b>(3), pp. 81-106, 2019.</p> <p>[14] Cai, J., <b>Tsaprounis, K.</b>, "On strengthenings of superstrong cardinals", <i>New York Journal of Mathematics</i>, <b>25</b>, pp. 174-194, 2019.</p> <p>[15] Koufogiorgos, T., <b>Tsichlias, C.</b>, "Contact Metric Three-Manifolds with Constant Scalar Torsion", <i>Journal of the Australian Mathematical Society</i>, <b>107</b>(2), pp. 234-255, 2019.</p> <p>[16] <b>Kostas D. Housiadas</b> &amp; Antony N. Beris, "Variables viscosity effects for the flow around a sphere", <i>Physics of Fluids</i>, <b>31</b>(11), 2019.</p> <p>[17] <b>Kostas D. Housiadas</b>, "Steady sedimentation of a spherical particle under constant rotation", <i>Phys. Rev. Fluids</i>, <b>4</b> (10), 2019.</p> <p>[18] Evgenios A. Gryparis, Spyros D. Gkormpatsis, <b>Kostas D. Housiadas</b> &amp; Roger I. Tanner, "Viscoelastic planar elongational past an infinitely long cylinder", <i>Physics of Fluids</i>, <b>31</b>(3), 2019.</p>
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