

Αθανάσιος Απ. Κοτσιώλης ,Καθηγητής(14/03/1951,tel.6972007647)

Σπουδές: 1976 Πτυχίο Τμ.Μαθ/κων Παν/μίου Αθηνών
1981 Διδακτορικό Παν/μίου Toulouse III (Γαλλία)
1987 Ph.D. Math.Institute V .Steklov ,Saint Petersburg (Ρωσσία)

Ακαδημαϊκές Θέσεις: 1981-1982 Επιμελητής Α΄ έδρα Ανάλυσης Παν/μίου Πατρών.
1982-1988 Λέκτορας Τμ.Μαθ/κών Παν/μίου Πατρών.
Ερευνητής (Εκπ.Αδεια): Ιανουάριος 1986-Ιούνιος 1986 Math.Institute V .Steklov Saint Petersburg (Ρωσσία),
1988-1992 Επικ.Καθηγητής Τμ.Μαθ/κών Παν/μίου Πατρών
1992-1996 Αναπλ.Καθηγητής Τμ.Μαθ/κών Παν/μίου Πατρών.
Φεβρουάριος 1993-Ιούλιος 1993 Επισκέπτης Καθηγητής στο Τμ.Ανάλυσης και Γεωμετρίας του Παν/μίου Paris VI (Γαλλία)(Εκπ.Αδεια)
Ιούνιος 1995-Αύγουστος 1995 Προσκεκλημένος Καθηγητής Στο Τμ.Ανάλυσης και Γεωμετρίας του Παν/μίου Paris VI (Γαλλία).
1996-Σήμερα Καθηγητής Τμ.Μαθ/κών Παν/μίου Πατρών.

Ερευνητικά Ενδιαφέροντα: Ανισότητες Sobolev, Μη γραμμικές Μερικές Διαφορικές Εξισώσεις ,Ανάλυση πάνω σε πολλαπλότητες.

Δημοσιεύσεις:

ISSN 2167-5163

- [Clipboard](#)
- [Home](#)
- [Preferences](#)
- [Help](#)
- [Support Mail](#)
- [Terms of Use](#)

- University of Patras



Matches: 37

[Show all results](#)

Select Page: Previous 1 [2](#) [Next](#)



Batch Download: [Retrieve Marked](#) [Retrieve First 50](#) [Unmark All](#)

[MathJax is on](#) Publications results for "Items authored by Cotsiolis, Athanase "



[MR2847444](#) Reviewed [Cotsiolis, Athanase](#); [Labropoulos, Nikos](#) Sharp Nash inequalities on the unit sphere: the influence of symmetries. [Nonlinear Anal.](#) **75**

(2012), no. 2, 612–624. (Reviewer: Kimiaki Narukawa) [58E35 \(35A23 41A44 58E40\)](#)

[PDF Clipboard Journal Article](#)



[MR2802028](#) Reviewed [Cotsiolis, Athanase](#); [Labropoulos, Nikos](#) Exponential elliptic boundary value problems on a solid torus in the critical of supercritical case. *J. Differential Equations* **251** (2011), no. 3, 651–687. (Reviewer: Futoshi Takahashi) [35J91 \(35B06 35J25 47J30\)](#)

[PDF Clipboard Journal Article](#)



[MR2747796](#) Indexed [Cotsiolis, Athanase](#); [Zachos, Anastasios](#) Corrigendum to "The weighted Fermat-Torricelli problem on a surface and an "inverse" problem" [*J. Math. Anal. Appl.* **373** (1) (2011) 44–58] [[MR2684456](#)]. *J. Math. Anal. Appl.* **376** (2011), no. 2, 760. [52A40](#)

[PDF Clipboard Journal Article](#)



[MR2734986](#) Reviewed [Cotsiolis, Athanase](#); [Labropoulos, Nikos](#) Sharp Nash inequalities on manifolds with boundary in the presence of symmetries. *Nonlinear Anal.* **74** (2011), no. 1, 161–170. (Reviewer: Rodney Josué Biezuner) [53C21 \(35A23 35R01\)](#)

[PDF Clipboard Journal Article](#)



[MR2684456](#) Reviewed [Zachos, Anastasios](#); [Cotsiolis, Athanase](#) The weighted Fermat-Torricelli problem on a surface and an "inverse" problem. *J. Math. Anal. Appl.* **373** (2011), no. 1, 44–58. [52A40](#)

[PDF Clipboard Journal Article](#)



[MR2455897](#) Reviewed [Cotsiolis, Athanase](#); [Labropoulos, Nikos](#) Best constants in Sobolev inequalities on manifolds with boundary in the presence of symmetries and applications. *Bull. Sci. Math.* **132** (2008), no. 7, 562–574. (Reviewer: Rodney Josué Biezuner) [58J32 \(35J20 35J60 46E35\)](#)

[PDF Clipboard Journal Article](#)



[MR2466494](#) Reviewed [Cotsiolis, Athanase](#); [Labropoulos, Nikos](#) Nonlinear Dirichlet problem on a solid torus in the critical of supercritical case. *Bull. Greek Math. Soc.* **53** (2007), 39–57. (Reviewer: Kimiaki Narukawa) [35J60 \(35B05 35J20 35J25 47J30\)](#)

[PDF Clipboard Journal Article](#)



[MR2366057](#) Reviewed [Cotsiolis, Athanase](#); [Labropoulos, Nikos](#) A Neumann problem with the q -Laplacian on a solid torus in the critical of supercritical case. *Electron. J. Differential Equations* **2007**, No. 164, 18 pp. (electronic). [35J65 \(35J60 46E35\)](#)

[PDF Clipboard Journal Article](#)



[MR2356166](#) Reviewed [Cotsiolis, Athanase](#); [Tavoularis, Nikolaos K.](#) Sharp inequalities for Riesz, Bessel and Yukawa potential operators. *Bull. Greek Math. Soc.* **52** (2006), 99–118. (Reviewer: Hiroaki Aikawa) [31B15](#)

[PDF Clipboard Journal Article](#)



[MR2123029](#) [Reviewed](#) [Cotsiolis, Athanase](#); [Tavoularis, Nikolaos K.](#) On logarithmic Sobolev inequalities for higher order fractional derivatives. *C. R. Math. Acad. Sci. Paris* 340 (2005), no. 3, 205–208. [26A33](#) ([26D15](#))
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR2064421](#) [Reviewed](#) [Cotsiolis, Athanase](#); [Tavoularis, Nikolaos K.](#) Best constants for Sobolev inequalities for higher order fractional derivatives. *J. Math. Anal. Appl.* 295 (2004), no. 1, 225–236. (Reviewer: Olivier Druet) [46E35](#) ([26A33](#) [26D15](#) [35J20](#))
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1946913](#) [Reviewed](#) [Aubin, Thierry](#); [Cotsiolis, Athanase](#) Problème de la courbure scalaire prescrite sur les variétés riemanniennes complètes. (French) [Prescribed scalar curvature problem for complete Riemannian manifolds] *J. Math. Pures Appl.* (9) 81 (2002), no. 10, 999–1009. [53C21](#)
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1947703](#) [Reviewed](#) [Cotsiolis, Athanase](#); [Tavoularis, Nikolaos Con.](#) Sharp Sobolev type inequalities for higher fractional derivatives. *C. R. Math. Acad. Sci. Paris* 335 (2002), no. 10, 801–804. [26D10](#) ([26A33](#) [35S30](#))
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1742492](#) [Reviewed](#) [Aubin, Thierry](#); [Cotsiolis, Athanase](#) Équations non linéaires avec le p -laplacien et la fonction exponentielle sur les variétés riemanniennes compactes. (French) [Nonlinear equations with p -Laplacian and exponential function on compact Riemannian manifolds] *Bull. Sci. Math.* 124 (2000), no. 1, 1–19. (Reviewer: Emmanuel Hebey) [58J60](#) ([35J60](#))
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1672546](#) [Reviewed](#) [Aubin, T.](#); [Cotsiolis, A.](#) Équations elliptiques non linéaires sur S_n dans le cas supercritique. (French) [Nonlinear elliptic equations on S_n in the supercritical case] *Bull. Sci. Math.* 123 (1999), no. 1, 33–45. (Reviewer: Jean-Noël Corvellec) [35J60](#) ([35B38](#) [58J05](#))
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1373750](#) [Reviewed](#) [Cotsiolis, Athanase](#) Problème de Neumann avec exposant sur-critique et une non-linéarité sur-critique sur le bord. (French) [Neumann problem with supercritical exponent and supercritical nonlinearity at the boundary] *C. R. Acad. Sci. Paris Sér. I Math.* 322 (1996), no. 2, 139–142. [35J65](#) ([35B05](#))
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1354245](#) [Reviewed](#) [Cotsiolis, A.](#); [Iliopoulos, D.](#) Équations elliptiques non linéaires à croissance de Sobolev sur-critique. (French) [Nonlinear elliptic equations with supercritical Sobolev growth] *Bull. Sci. Math.* 119 (1995), no. 5, 419–431. [35J65](#) ([35B05](#))
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1334748](#) [Reviewed](#) [Kot-siolis, A. A.](#) Time-periodic solutions of dissipative ε -approximations for modified Navier-Stokes equations. (Russian) [Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. \(POMI\)](#) **210** (1994), [Mat. Voprosy Teor. Rasprostr. Voln. 23](#), 109--124, 281--282; [translation in J. Math. Sci.](#) **83** (1997), [no. 2](#), 233--243 (Reviewer: B. Szafirski) [35Q30 \(35B10 76A10 76D05\)](#)
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1259046](#) [Reviewed](#) [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#) Initial-boundary value problems for equations of weakly compressible Jeffreys-Oldroyd fluids. (Russian) [Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. \(POMI\)](#) **208** (1993), [Issled. po Topol. 7](#), 200--218, 223; [translation in J. Math. Sci.](#) **81** (1996), [no. 2](#), 2578--2588 (Reviewer: Sergey Nikolaevich Alekseenko) [76A05 \(35Q35 76D30 76N10\)](#)
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1259045](#) [Reviewed](#) [Kot-siolis, A. A.](#) Attractors of initial-boundary value problems for equations of motion of Jeffreys-Oldroyd fluids in domains with nonsmooth and smooth boundaries. (Russian) [Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. \(POMI\)](#) **208** (1993), [Issled. po Topol. 7](#), 186--199, 222; [translation in J. Math. Sci.](#) **81** (1996), [no. 2](#), 2570--2577 (Reviewer: Vladimir V. Shelukhin) [35Q35 \(35B40 47N20 58F39 76A05\)](#)
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1255317](#) [Reviewed](#) [Kot-siolis, A. A.](#) Smooth periodic solutions of equations of Maxwell fluids "with a penalty". (Russian) [Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. \(POMI\)](#) **206** (1993), [Issled. po Linein. Oper. i Teor. Funktsii. 21](#), 85--90, 175; [translation in J. Math. Sci.](#) **80** (1996), [no. 4](#), 1927--1930 (Reviewer: Antonín Novotný) [76A05 \(35Q35\)](#)
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1255303](#) [Reviewed](#) [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#) The initial-boundary value problem with a free surface condition for the ε -approximations of the Navier-Stokes equations and some [of] their regularizations. [Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. \(POMI\)](#) **205** (1993), [Differentsialnaya Geom. Gruppy Li i Mekh. 13](#), 38--70, 179--180; [translation in J. Math. Sci.](#) **80** (1996), [no. 3](#), 1773--1801 (Reviewer: Vladimir V. Shelukhin) [35Q30 \(35J65 76A10 76D05\)](#)
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1228963](#) [Reviewed](#) [Cotsiolis, Athanase](#) Solutions positives et solutions nodales d'équations elliptiques non linéaires à croissance de Sobolev sur-critique. (French) [Positive solutions and nodal solutions of nonlinear elliptic equations with supercritical Sobolev growth] [C. R. Acad. Sci. Paris Sér. I Math.](#) **317** (1993), [no. 1](#), 47--50. [35J65 \(35B05\)](#)
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR1168675](#) [Reviewed](#) [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#); [Shadiev, R. D.](#) Nonlocal problems for a class of nonlinear dissipative equations of Sobolev type. (Russian) [Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. \(POMI\)](#) **199** (1992),

[Voprosy Kvant. Teor. Polya Statist. Fiz. 11](#), 91--113, 186; *translation in J. Math. Sci.* **77** (1995), [no. 2](#), 3076--3089 (Reviewer: R. Guenther) [35K60 \(35B10 35K70 35Q99\)](#)
[PDF Clipboard](#) Journal [Article](#)



[MR1133494](#) Reviewed [Cotsiolis, Athanase](#); [Iliopoulos, Dimitris](#) Équations elliptiques non linéaires sur S_n . Le problème de Nirenberg. (French) [Nonlinear elliptic equations on S_n . The Nirenberg problem] *C. R. Acad. Sci. Paris Sér. I Math.* **313** (1991), [no. 9](#), 607--609. [58G30 \(53C21\)](#)

[PDF Clipboard](#) Journal Article



[MR1100538](#) Reviewed [Karazeeva, N. A.](#); [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#) Dynamical systems generated by initial-boundary value problems for equations of motion of linear viscoelastic fluids. (Russian) Translated in Proc. Steklov Inst. Math. 1991, no. 3, 73--108. Boundary value problems of mathematical physics, 14 (Russian). *Trudy Mat. Inst. Steklov.* **188** (1990), 59--87, 191. (Reviewer: Woodford W. Zachary) [58F39 \(34G20 35Q35 47H20 58F12 76A10\)](#)

[PDF Clipboard](#) Journal Article



[MR1067334](#) Reviewed [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#); [Shadiev, R.](#) Asymptotic stability and time periodicity of "small" solutions of equations of motion of Oldroyd fluids and Kelvin-Voigt fluids. (Russian) *Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* **180** (1990), [Voprosy Kvant. Teor. Polya i Statist. Fiz. 9](#), 63--75, 180; *translation in J. Math. Sci.* **68** (1994), [no. 2](#), 202--211 (Reviewer: J. Štastna) [35Q35 \(35B40 76A05 76E99\)](#)

[PDF Clipboard](#) Journal [Article](#)



[MR1064098](#) Reviewed [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#); [Shadiev, R. D.](#) A priori estimates on the semiaxis for solutions of equations of motion of linear viscoelastic fluids with an infinite Dirichlet integral and their applications. (Russian) *Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* **182** (1990), [Kraev. Zadachi Mat. Fiz. i Smezh. Voprosy Teor. Funktsii. 21](#), 86--101, 171--172; *translation in J. Soviet Math.* **62** (1992), [no. 3](#), 2777--2788 (Reviewer: Andro Mikelić) [35Q35 \(35B45 73F15 76A10\)](#)

[PDF Clipboard](#) Journal [Article](#)



[MR1042984](#) Reviewed [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#); [Shadiev, R.](#) \cyr Global'nye apriornye otsenki na poluosi $t \geq 0$, asimptoticheskaya ustoichivost' i periodichnost' po vremeni "malykh" reshenii uravnenii dvizheniya zhidkosteĭ Oldroita i zhidkosteĭ Kel'vina-Foigta. (Russian) [Global a priori estimates on the half-line $t \geq 0$, asymptotic stability and time periodicity of "small" solutions of equations for the motion of Oldroyd fluids and Kelvin-Voigt fluids] With an English summary. [\cyr Preprinty LOMI \[LOMI Preprints\], R-10-89.](#) *Akad. Nauk SSSR, Mat. Inst. Leningrad. Otdel., Leningrad*, 1989. 65 pp. (Reviewer: Athanase Cotsiolis) [76A05 \(35Q35 76D99 76E99\)](#)

[PDF Clipboard](#) Series Book



[MR0947328](#) Reviewed [Karazeeva, N. A.](#); [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#) A dynamical system generated by the equations of the motion of Oldroyd fluids of order

L. (Russian) [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. \(LOMI\) 164](#) (1987), [Differentsialnaya Geom. Gruppy Li i Mekh. IX](#), 46--53, 197; translation in [J. Soviet Math. 47](#) (1989), no. 2, 2399–2403 [76A10 \(58D25 58F12\)](#)
[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR0918946](#) [Reviewed](#) [Oskolkov, A. P.](#); [Akhmatov, M. M.](#); [Kot-siolis, A. A.](#) The equations of motion of linear viscoelastic fluids and the equations of filtration of fluids with delay. (Russian) [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. \(LOMI\) 163](#) (1987), [Kraev. Zadachi Mat. Fiz. i Smezhn. Vopr. Teor. Funktsii 19](#), 132--137, 189; translation in [J. Soviet Math. 49](#) (1990), no. 5, 1203–1206 [35Q20 \(76A10 76S05\)](#)

[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR0869579](#) [Reviewed](#) [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#) On the dynamical system generated by the equations of motion of Oldroyd fluids. (Russian) [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. \(LOMI\) 155](#) (1986), [Differentsialnaya Geometriya, Gruppy Li i Mekh. VIII](#), 136--141, 194; translation in [J. Soviet Math. 41](#) (1988), no. 2, 967–970 [76A05 \(35Q10\)](#)

[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR0869243](#) [Reviewed](#) [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#) On the limit states and the attractor for equations of motion of Oldroyd fluids. (Russian) [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. \(LOMI\) 152](#) (1986), [Kraev. Zadachi Mat. Fiz. i Smezhnye Vopr. Teor. Funktsii 18](#), 67--71, 182; translation in [J. Soviet Math. 40](#) (1988), no. 5, 629–631 [35B35 \(35Q10 35Q20 58F12\)](#)

[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR0861260](#) [Reviewed](#) [Kot-siolis, A. A.](#); [Oskolkov, A. P.](#) Solvability of the fundamental initial-boundary value problem for the equations of motion of Oldroyd fluids on $(0, \infty)$ and the behavior of its solution as $t \rightarrow +\infty$. (Russian) [Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. \(LOMI\) 150](#) (1986), [Voprosy Kvant. Teor. Polya i Statist. Fiz. 6](#), 48--52, 219; translation in [J. Soviet Math. 46](#) (1989), no. 1, 1595–1598 (Reviewer: C. Fetecău) [76A05 \(35Q10\)](#)

[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR0850282](#) [Reviewed](#) [Cotsiolis, Athanase](#) Opérateur hyperbolique à coefficients indépendants du temps sur une variété non compacte. (French) [Hyperbolic operators with time-independent coefficients on noncompact manifolds] [Boll. Un. Mat. Ital. A \(6\) 5](#) (1986), no. 2, 147–155. (Reviewer: Gustavo Perla Menzala) [58G16 \(35L15\)](#)

[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR0758427](#) [Reviewed](#) [Cotsiolis, A.](#) Opérateurs elliptiques du second ordre sur une variété asymptotiquement euclidienne. (French) [Second-order elliptic operators on asymptotically Euclidean manifolds] [Rev. Roumaine Math. Pures Appl. 29](#) (1984), no. 5, 381–397. (Reviewer: Edmond Combet) [58G05 \(35J99 58G30\)](#)

[PDF](#) [Clipboard](#) [Journal](#) [Article](#)



[MR0698485 Reviewed](#) [Cotsiolis, Athanase](#) Opérateur elliptique sur une variété asymptotiquement euclidienne. (French) [Elliptic operator on an asymptotically Euclidean manifold] [Boll. Un. Mat. Ital. B \(6\)](#) **2** (1983), no. 1, 139–157. (Reviewer: Philippe-A. Dionne) [58G30 \(35J99\)](#)
[PDF Clipboard](#) Journal Article

Reviewer για το *Mathematical Reviews* (από το 1987)

Κριτής (referee) για τα περιοδικά : [J. Math. Anal. Appl.](#), [Nonlinear Anal.](#)

Διδακτορικές Διατριβές που επέβλεψε (όνομα διδάκτορα και τίτλος διατριβής)

1. Δημήτριος Η. Ηλιόπουλος 1990

“Υπαρξη λύσεων της Ελλειπτικής εξίσωσης ... επί μιας συμπαγούς Ρημάνειας πολλαπλότητας”.

2 Νικόλαος Κ. Ταβουλάρης 2004 “Ανισότητες Sobolev και Εφαρμογές”.

3. Νίκος Λαμπρόπουλος 2007 “Ελλειπτικές εξισώσεις με υπερκρίσιμο εκθέτη σε συμπαγείς πολλαπλότητες με σύνορο”.

Διοικητικές Δραστηριότητες (τις σημαντικότερες):

Πρόεδρος του Διοικητικού Συμβουλίου της Βιβλιοθήκης του Τμήματος Μαθηματικών από 1992 μέχρι την ενσωμάτωσή της (2004) στην Κεντρική Βιβλιοθήκη. Πρόεδρος της Επιτροπής του «Γενικού Σεμιναρίου Μαθηματικών» από το 1986 μέχρι το 2011 (εν συνεχεία μέλος).

Διευθυντής του Τομέα Θεωρητικών Μαθηματικών για αρκετά χρόνια.