List of Publications by Year in descending order

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LUICI C REDSELLI

Regularity criteria involving the pressure for the weak solutions to the Navier-Stokes equations. Proceedings of the American Mathematical Society, 2002, 130, 3585-3595.	0.4	135
Existence of Strong Solutions for Incompressible Fluids with Shear Dependent Viscosities. Journal of Mathematical Fluid Mechanics, 2010, 12, 101-132.	0.4	76
Navier–Stokes equations: Green's matrices, vorticity direction, and regularity up to the boundary. Journal of Differential Equations, 2009, 246, 597-628.	1.1	56
ASHEE-1.0: aÂcompressible, equilibrium–Eulerian model for volcanic ash plumes. Geoscientific Model Development, 2016, 9, 697-730.	1.3	51
On the Finite Element Approximation of <i>p</i> -Stokes Systems. SIAM Journal on Numerical Analysis, 2012, 50, 373-397.	1.1	45
On the Vanishing Viscosity Limit of 3D Navier-Stokes Equations under Slip Boundary Conditions in General Domains. Communications in Mathematical Physics, 2012, 316, 171-198.	1.0	43
On the structural stability of the Euler–Voigt and Navier–Stokes–Voigt models. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 117-130.	0.6	39
Convergence of approximate deconvolution models to the mean Navier–Stokes equations. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2012, 29, 171-198.	0.7	37
Some geometric constraints and the problem of global regularity for the Navier–Stokes equations. Nonlinearity, 2009, 22, 2561-2581.	0.6	29
On the energy equality for the 3D Navier–Stokes equations. Nonlinear Analysis: Theory, Methods & Applications, 2020, 192, 111704.	0.6	26
Vanishing viscosity limits and long-time behavior for 2D quasi-geostrophic equations. Indiana University Mathematics Journal, 2002, 51, 905-930.	0.4	25
MATHEMATICAL ANALYSIS FOR THE RATIONAL LARGE EDDY SIMULATION MODEL. Mathematical Models and Methods in Applied Sciences, 2002, 12, 1131-1152.	1.7	24
On the Large Eddy Simulation of the Taylor–Green vortex. Journal of Mathematical Fluid Mechanics, 2005, 7, S164-S191.	0.4	24
On the regularity of the solutions to the 3D Navier–Stokes equations: a remark on the role of the helicity. Comptes Rendus Mathematique, 2009, 347, 613-618.	0.1	23
Local solvability and turning for the inhomogeneous Muskat problem. Interfaces and Free Boundaries, 2014, 16, 175-213.	0.2	22
On the W2,q-Regularity of Incompressible Fluids with Shear-Dependent Viscosities: The Shear-Thinning Case. Journal of Mathematical Fluid Mechanics, 2009, 11, 171-185.	0.4	21
Analysis of a reduced-order approximate deconvolution model and its interpretation as a Navier-Stokes-Voigt regularization. Discrete and Continuous Dynamical Systems - Series B, 2016, 21, 1027-1050.	0.5	18
Some criteria concerning the vorticity and the problem of global regularity for the 3D Navier–Stokes equations. Annali Dell'Universita Di Ferrara, 2009, 55, 209-224.	0.7	17
	Regularty criteria involving the pressure for the weak solutions to the Navier-Stokes equations. Proceedings of the American Mathematical Society, 2002, 130, 3585-3595. Existence of Strong Solutions for Incompressible Fluids with Shear Dependent Viscosities, Journal of Mathematical Fluid Mechanics, 2010, 12, 101-132. Navier3C*Stokes equations: Green's matrices, vorticity direction, and regularity up to the boundary. Journal of Differential Equations, 2009, 246, 597-628. ASHEE-1.0: a&compressible, equilibrium3C*Eulerian model for volcanic ash plumes. Geoscientific Model Development, 2016, 9, 697-730. On the Finite Element Approximation of Op (/b) Stokes Systems. SIAM Journal on Numerical Analysis, 2012, 50, 373-397. On the Vanishing Viscosity Limit of 3D Navier Stokes Equations under Slip Boundary Conditions in General Domains. Communications in Mathematical Physics, 2012, 316, 171-198. On the structural stability of the Eulerae"Voigt and Navierae"Stokesse"Voigt models. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 117-130. Convergence of approximate deconvolution models to the mean Navierae"Stokes equations. Annales De L'Institut Henri Policare (C) Analyse Non Lineaire, 2012, 99, 171-198. Sone geometric constraints and the problem of global regularity for the Navierae"Stokes equations. Indiana Interestry 2009, 22, 2561-2581. On the energy equality for the 3D Navierae"Stokes equations. Nonlinear Analysis: Theory, Methods & Applications, 2002, 19, 095-930. MATHEMATICAL ANALYSIS FOR THE RATIONAL LARCE EDDY SIMULATION MODEL. Mathematical Models and Meth	Regularity criteria involving the pressure for the weak solutions to the Narder Stokes equations. 0.4 Recedings of the American Mathematical Society, 2002, 130, 3585-3595. 0.4 Existence of Strong Solutions for Incompressible Fluids with Shear Dependent Viscosities, Journal of American Mathematical Fluid Mechanics, 2000, 124, 101-132. 1.1 ASHEE 1.0: a&compressible, equilibrium&Creen vorticity direction, and regularity up to the boundary. 1.1 On the Finite Element Approximation of (Elepth)-Stokes Systems. SIAM Journal on Numerical Analysis, 2012, 373-397. 1.1 On the Vanishing Viscosity, Linit of 3D Navier-Stokes Equations under Silp Boundary Conditions in Ceneral Damis. Communications in Mathematical Physics, 2012, 316, 171-198. 0.6 Convergence of approximate deconvolution models to the mean Navier&Cristokes equations. Annales De Unstrumed and the problem of global regularity for the Navier&Cristokes equations. Annales De Unstrumenty, 2009, 22, 556-1251. 0.6 On the energy equality for the 3D Navier&Cristokes equations. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 117-130. 0.6 Convergence of approximate deconvolution models to the mean Navier&Cristokes equations. Annales De Unstrumenty, 2009, 22, 2561-2581. 0.6 Nonlinearity, 2009, 22, 2561-2581. 0.6 On the energy equality for the 3D Navier&Cristokes equations. Nonlinear Analysis: Theory, Methods & and the problem of global regularity for the Navier&Cristokes equations. Indiana University Mathematical Models and Methods in Applied Scienc

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19	Analytical and Numerical Results for the Rational Large Eddy Simulation Model. Journal of Mathematical Fluid Mechanics, 2007, 9, 44-74.	0.4	16
20	Suitable weak solutions to the 3D Navier–Stokes equations are constructed with the Voigt approximation. Journal of Differential Equations, 2017, 262, 3285-3316.	1.1	16
21	Exact solution to the inverse Womersley problem for pulsatile flows in cylindrical vessels, with application to magnetic particle targeting. Applied Mathematics and Computation, 2013, 219, 5717-5729.	1.4	15
22	Turbulent flows as generalized Kelvin–Voigt materials: Modeling and analysis. Nonlinear Analysis: Theory, Methods & Applications, 2020, 196, 111790.	0.6	15
23	Analysis of a Large Eddy Simulation model based on anisotropic filtering. Journal of Mathematical Analysis and Applications, 2012, 386, 149-170.	0.5	13
24	Global regularity properties of steady shear thinning flows. Journal of Mathematical Analysis and Applications, 2017, 450, 839-871.	0.5	13
25	Analysis of commutation errors for functions with low regularity. Journal of Computational and Applied Mathematics, 2007, 206, 1027-1045.	1.1	12
26	Convergence of approximate deconvolution models to the mean magnetohydrodynamics equations: Analysis of two models. Journal of Mathematical Analysis and Applications, 2013, 401, 864-880.	0.5	12
27	Convergence analysis for a finite element approximation of a steady model for electrorheological fluids. Numerische Mathematik, 2016, 132, 657-689.	0.9	12
28	Global regularity for systems with <i>p</i> -structure depending on the symmetric gradient. Advances in Nonlinear Analysis, 2020, 9, 176-192.	1.3	12
29	Some results for the line vortex equation. Nonlinearity, 2002, 15, 1729-1746.	0.6	11
30	On the space–time regularity of C(0,T;Ln)-very weak solutions to the Navier–Stokes equations. Nonlinear Analysis: Theory, Methods & Applications, 2004, 58, 703-717.	0.6	11
31	On the Boussinesq system: regularity criteria and singular limits. Methods and Applications of Analysis, 2011, 18, 391-416.	0.1	11
32	On the Existence and Uniqueness of Weak Solutions for a Vorticity Seeding Model. SIAM Journal on Mathematical Analysis, 2006, 37, 1780-1799.	0.9	10
33	Asymptotic behaviour of commutation errors and the divergence of the Reynolds stress tensor near the wall in the turbulent channel flow. Mathematical Methods in the Applied Sciences, 2006, 29, 1709-1719.	1.2	10
34	Long-time Reynolds averaging of reduced order models for fluid flows: Preliminary results. Mathematics in Engineering, 2020, 2, 1-25.	0.5	10
35	Sufficient conditions for the regularity of the solutions of the Navier-Stokes equations. Mathematical Methods in the Applied Sciences, 1999, 22, 1079-1085.	1.2	9
36	On a theorem by Sohr for the Navier-Stokes equations. Journal of Evolution Equations, 2004, 4, 193.	0.6	9

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37	On the Global Evolution of Vortex Filaments, Blobs, and Small Loops in 3D Ideal Flows. Communications in Mathematical Physics, 2006, 269, 693-713.	1.0	9
38	Optimal Error Estimates for a Semi-Implicit Euler Scheme for Incompressible Fluids with Shear Dependent Viscosities. SIAM Journal on Numerical Analysis, 2009, 47, 2177-2202.	1.1	9
39	Horizontal Large Eddy Simulation of Stratified Mixing inÂaÂLock-Exchange System. Journal of Scientific Computing, 2011, 49, 3-20.	1.1	9
40	Pulsatile Viscous Flows in Elliptical Vessels and Annuli: Solution to the Inverse Problem, with Application to Blood and Cerebrospinal Fluid Flow. SIAM Journal on Applied Mathematics, 2014, 74, 40-59.	0.8	9
41	An elementary approach to the inviscid limits for the 3D Navier–Stokes equations with slip boundary conditions and applications to the 3D Boussinesq equations. Nonlinear Differential Equations and Applications, 2014, 21, 149-166.	0.4	9
42	An elementary approach to the 3D Navier-Stokes equations with Navier boundary conditions: Existence and uniqueness of various classes of solutions in the flat boundary case Discrete and Continuous Dynamical Systems - Series S, 2010, 3, 199-219.	0.6	9
43	A higher-order subfilter-scale model for large eddy simulation. Journal of Computational and Applied Mathematics, 2003, 159, 411-430.	1.1	8
44	Logarithmic and improved regularity criteria for the 3D nematic liquid crystals models, Boussinesq system, and MHD equations in a bounded domain. Communications on Pure and Applied Analysis, 2015, 14, 637-655.	0.4	8
45	Optimal error estimate for semi-implicit space-time discretization for the equations describing incompressible generalized Newtonian fluids. IMA Journal of Numerical Analysis, 2015, 35, 680-697.	1.5	8
46	New substructuring domain decomposition methods for advection–diffusion equations. Journal of Computational and Applied Mathematics, 2000, 116, 201-220.	1.1	7
47	A note on regularity of weak solutions of the Navier-Stokes equations in R ⁿ . Japanese Journal of Mathematics, 2002, 28, 51-60.	0.8	7
48	On the Well-Posedness of the Boussinesq Equations with Anisotropic Filter for Turbulent Flows. Zeitschrift Fur Analysis Und Ihre Anwendung, 2015, 34, 61-83.	0.8	7
49	On the construction of suitable weak solutions to the 3D Navier–Stokes equations in a bounded domain by an artificial compressibility method. Communications in Contemporary Mathematics, 2018, 20, 1650064.	0.6	7
50	Space–time discretization for nonlinear parabolic systems with <i>p</i> -structure. IMA Journal of Numerical Analysis, 2022, 42, 260-299.	1.5	7
51	Disperse Two-Phase Flows, with Applications to Geophysical Problems. Pure and Applied Geophysics, 2015, 172, 181-196.	0.8	6
52	On the Reynolds time-averaged equations and the long-time behavior of Leray–Hopf weak solutions, with applications to ensemble averages. Nonlinearity, 2019, 32, 4579-4608.	0.6	6
53	On a Stochastic Approach to Eddy Viscosity Models for Turbulent Flows. , 2009, , 55-81.		6
54	On the analysis of a geometrically selective turbulence model. Advances in Nonlinear Analysis, 2020, 9, 1402-1419.	1.3	6

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55	On the Boussinesq equations with anisotropic filter in a vertical pipe. Dynamics of Partial Differential Equations, 2015, 12, 177-192.	1.0	6
56	On the consistency of the Rational Large Eddy Simulation model. Computing and Visualization in Science, 2004, 6, 75-82.	1.2	5
57	On the Bardina's Model in the Whole Space. Journal of Mathematical Fluid Mechanics, 2018, 20, 1335-1351.	0.4	5
58	Remarks on determining projections for stochastic dissipative equations. Discrete and Continuous Dynamical Systems, 1999, 5, 197-214.	0.5	5
59	Natural second-order regularity for parabolic systems with operators having \$\$(p,delta) Tj ETQq1 1 0.784314 rgB Differential Equations, 2022, 61, .	T /Overloc 0.9	k 10 Tf 50
60	On the existence of almost-periodic solutions for the 2D dissipative Euler equations. Revista Matematica Iberoamericana, 2015, 31, 267-290.	0.4	4
61	Suitable weak solutions of the Navier–Stokes equations constructed by a space–time numerical discretization. Journal Des Mathematiques Pures Et Appliquees, 2019, 125, 189-208.	0.8	4
62	On the Existence of Leray-Hopf Weak Solutions to the Navier-Stokes Equations. Fluids, 2021, 6, 42.	0.8	4
63	Analysis of fully discrete, quasi non-conforming approximations of evolution equations and applications. Mathematical Models and Methods in Applied Sciences, 0, , 1-47.	1.7	4
64	On the existence of weak solutions for the steady Baldwin-Lomax model and generalizations. Journal of Mathematical Analysis and Applications, 2020, , 124633.	0.5	3
65	On the uniqueness for weak solutions of steady double-phase fluids. Advances in Nonlinear Analysis, 2021, 11, 454-468.	1.3	3
66	Towards fluid equations by approximate deconvolution models. , 0, , 1-22.		2
67	An elementary proof of uniqueness of particle trajectories for solutions of a class of shear-thinning non-Newtonian 2D fluids. Nonlinearity, 2013, 26, 1031-1047.	0.6	2
68	Rotational Forms of Large Eddy Simulation Turbulence Models: Modeling and Mathematical Theory. Chinese Annals of Mathematics Series B, 2021, 42, 17-40.	0.2	2
69	A note on the Euler–Voigt system in a 3D bounded domain: Propagation of singularities and absence of the boundary layer. AIMS Mathematics, 2018, 4, 1-11.	0.7	2
70	Existence and Convergence of an MHD Approximate Deconvolution Model. ESAIM: Proceedings and Surveys, 2013, 39, 25-31.	0.4	1
71	A Note on Strong Solutions to the Stokes System. Acta Applicandae Mathematicae, 2014, 134, 123-131.	0.5	1
72	On the convergence of a fully discrete scheme of LES type to physically relevant solutions of the incompressible Navier–Stokes. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	0.7	1

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73	Classical Solutions of the Divergence Equation with Dini Continuous Data. Journal of Mathematical Fluid Mechanics, 2020, 22, 1.	0.4	1
74	On the regularity up to the boundary for certain nonlinear elliptic systems. Discrete and Continuous Dynamical Systems - Series S, 2016, 9, 53-71.	0.6	1
75	Classical solutions for the system \$f {ext{curl}, v = g}\$, with vanishing Dirichlet boundary conditions. Discrete and Continuous Dynamical Systems - Series S, 2019, 12, 215-229.	0.6	1
76	The Caccioppoli ultrafunctions. Advances in Nonlinear Analysis, 2019, 8, 946-978.	1.3	0
77	Local energy inequality. , 2021, , 131-185.		0
78	On weak and strong solutions. , 2021, , 31-75.		0
79	Numerical construction of physically reasonable solutions. , 2021, , 187-254.		0
80	Modeling error of \$ alpha \$-models of turbulence on a two-dimensional torus. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 4613.	0.5	0
81	Global energy conservation. , 2021, , 77-129.		Ο
82	Long-time behavior of the energy. , 2021, , 255-310.		0
83	Horizontal Approximate Deconvolution for Stratified Flows: Analysis and Computations. ERCOFTAC Series, 2011, , 399-410.	0.1	0
84	On the regularity of solution to the time-dependent p-Stokes system. Opuscula Mathematica, 2020, 40, 49-69.	0.3	0
85	Optimal error estimate for a space-time discretization for incompressible generalized Newtonian fluids: the Dirichlet problem. SN Partial Differential Equations and Applications, 2021, 2, 1.	0.3	0