21   Elenco cronologico delle Pubblicazioni

h-index = 15 Scopus

105 pubblicazioni, di cui

- **1 pubblicazione didattica; 1 "altro";**

- **1 Relazione annuale del Comitato di Monitoraggio, Facoltà di Ingegneria Civile e Industriale Sapienza Università di Roma;**

- **7 Relazioni annuali del Commissione Paritetica Docenti-Studenti, Facoltà di Ingegneria Civile e Industriale Sapienza Università di Roma;**

- **61 (+ 1 in. press) indicizzati da Web of Science**[9] **(1982-2022) + 2 (to appear soon);**

- **1 articolo indicizzato da** *Chinese Web of Science* **(su Acta Mathematica Sinica, Springer-Verlag);**

- **58 (+ 1 to appear + 18 preprints) articoli indicizzati da Scopus (6 non indicizzati su Web of Science) con 669 citazioni al 01.11.2024; N.ro totale citazioni Web of Science (1982-2023) 597, il 16.04.2024.**

- **totale 69 (+ 2 in corso di stampa) pubblicazioni indicizzate da Web of Science o Scopus.**

- **73 (+ 1 to appear nella Rivista APNUM + 1 Volume di Proceedings Springer, Editor) pubblicazioni su MathSciNet (tra cui 4 articoli originali su Riviste o volumi internazionali NON indicizzate né ISI né Scopus)**

- **1 Tesi di Dottorato (Ph.D.), recensita da MathSciNet, pubblicata in Canada, (con copia depositata presso la Biblioteca Nazionale, Ottawa, Canada), ProQuest LLC, Thesis - disponibile online;**

- **1 articolo di rassegna recensito su MathSciNet;**

- **3 articoli originali** *isubmitted* **2 articoli in stesura.**

- **Membro Editorial Board: 4 Riviste intenazionali: Applied Numerical Mathematics (classe 1), Axioms e Mathematics, Open Communications in Nonlinear Mathematical Physics.**

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[9]l'abbonamento di Sapienza Università di Roma, non permette di vedere 3 articoli ed inizia nel 1985 escludendo la pubbl. 1, sulla rivista **Physical Review, A (Classe 1)** con 57 citazioni su Scopus (il 24.05.2023) e 59 su Web of Science.

- Guest Editor di 6 Special Issues di Riviste internazionali: Discrete and Continuous Dynamical Systems-Series B, Meccanica (2017 e 2023), Mathematics and Computers in Simulation (2020 e 2024), Rendiconti di Matematica e delle sue Applicazioni. Serie VII.

- Editor di 6 Volumi: 4 Atti di Convegni Internazionali, 2 Book of Abstracts, e di 1 Volume Speciale in memoria di V. Boffi.

- Inoltre, 96 *Abstracts* di interventi (di cui 74 nel periodo 2010 –2023). di comunicazioni a Convegni e/o Conferenze su invito.

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39 Co-autori e loro Nazionalità (15 stranieri):
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1 Cina, 1 Francia, 1 ex U.R.S.S. (Novosibirsk),
1 Irlanda, 1 U.S.A., 1 the Netherland

---

[1] A. Quattropani, F. Bassani, S. Carillo[10], *Two photon transition to excited states in atomic hydrogen*, Phys. Rev. A **25**, 3079–3089, (1982). doi:10.1103/PhysRevA.25.3079.
• WOS:A1982NS86900022, 2-s2.0-0008859965 •
Impact Factor 2.808 (2021) **1997 Impact Factor 2.764** **Q1**

[2] C. Rogers, S. Carillo, *On reciprocal properties of the Caudrey-Dodd-Gibbon and Kaup-Kupershmidt hierarchies*, Physica Scripta, **36**, 865–869, (1987). doi:10.1088/0031-8949/36/6/001.
• WOS: A1987L230300001, 2-s2.0-0001019623, MR0921595 •
Impact Factor 0.772 (2021) **Q2-Q3**

[3] S. Carillo, C. Rogers, *Bäcklund Charts for the Caudrey-Dodd-Gibbon and Kaup-Kupershmidt hierarchies*, in: Nonlinear Evolutions, Leon J.J.-P. ed., World Scientific Pubbl., Singapore, 57 – 73, (1988). • MR1031498 •

[4] S. Carillo, *Painlevé Property: a conjectured integrability test for non linear partial differential equations*, Quaderni, **1**, Dipartimento Metodi e Modelli Matematici per le Scienze Applicate, Roma, 1 – 23, (1988).
• Articolo di rassegna recensito su MathSciNet MR0964887 •

[5] S. Carillo, B. Fuchssteiner, *The abundant symmetry structure of non linear equations obtained by reciprocal links*, J. Math. Phys., **30**, 1606–1613, (1989). doi:10.1063/1.528604 • WOS: A1989AC84300027, 2-s2.0-0001759082, MR1002268 •
Impact Factor 1.469 (2021) **1997 Impact Factor 1.102** **Q3**

[6] B. Fuchssteiner, S. Carillo, *Soliton structure versus singularity analysis: third order completely integrable non linear differential equations in $1 + 1$-dimensions*, Physica A, **154**, 467–510, (1989). doi:10.1016/0378-4371(89)90260-4.
• WOS:A1989T085300005, 2-s2.0-0002407153, MR982378 •
Impact Factor 3.778 (2021) **Q1**

[7] S. Carillo, *Invariance Properties and Symmetry Structure of Integrable Systems*, Ph.D. Thesis, University of Waterloo, Waterloo, Ontario, Canada, (1989), pubblicata (con copia depositata presso la Biblioteca Nazionale, Ottawa, Canada), ProQuest LLC, Thesis (disponibile online `http://gateway.proquest.com/openurl?url_ver=Z39.88-2004&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&res_dat=xri:pqdiss&rft_dat=xri:pqdiss:NL49213`)
• Ph.D. Thesis ProQuest Publication MR2637705 • **ISBN 978- 0315-49213-4**;

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[10]N.B. L'articolo NON è visibile con l'abbonamento Sapienza, ma è indicizzato da Web of Science dove ha 59 citazioni dal 1982 ad oggi, di cui 9 precedenti il 1985, anno a partire dal quale l'abbonamento di Sapienza Università permette di vedere gli articoli pubblicati sulla rivista Physical Review A, (Q1)

[8] Ben-Yu Guo, S. Carillo, *Infiltration in soils with prescribed boundary concentration*, Acta Appl. Math. Sinica, **6**, (4), Springer-Verlag , 365-69, (1990). doi:10.1007/BF02015343
• **CSCD:111283**[11], 2-s2.0-34249952504, MR1090396 •
Impact Factor 0.691 (2021) [12]   **Q3**

[9] S. Carillo, B. Fuchssteiner *Non commutative symmetries and new solutions of the Harry Dym equation*, in: Nonlinear Evolution Equations: Integrability and Spectral Methods, A. Degasperis, A.P. Fordy and M. Lakshmanan, Ed.s, Manchester University Press, 351–366, (1990).
ISBN 0719032733, 9780719032738 ISSN: 0266-5611 • WOS: A1990BS60Z00033 •

[10] S. Carillo, B. Fuchssteiner *The Soliton-Singularity transform*, in: Nonlinear Evolution Equations: Integrability and Spectral Methods, A. Degasperis, A.P. Fordy and M. Lakshmanan, Ed.s, Manchester University Press, 161–175, (1990).

• WOS: A1990BS60Z00016, •

[11] S. Carillo, B. Fuchssteiner, *The Action-Angle Transformation for the Korteweg-deVries Equation*, in: Nonlinear Evolution equations and dynamical systems, Res. Rep. Phys., Springer, Berlin, S. Carillo, O. Ragnisco Ed.s, 127–130, (1990).

• Articolo su Proceedings Convegno internazionale, MR1075823 •

[12] S. Carillo, B. Fuchssteiner, *The Action-Angle Transformation for Soliton Equations*, Physica A, **166**, 651–s676, (1990). doi:10.1016/0378-4371(90)90078-7
• WOS:A1990DV53200015, 2-s2.0-4243264964, MR1067093 •
Impact Factor 3.778 (2021)   **Q1**

[13] S. Carillo, *Third Order Nonlinear Hamiltonian Systems: Some remarks on the Action-Angle transformation*, in: XIXth International Conference Differential Geometrical Methods in Theoretical Physics, Proceedings, Bartocci C., Bruzzo U., Cianci R. eds, Springer-Verlag, 375–379, (1991). doi:10.1007/3-540-53763-5_73   • MR1134171 •

[14] S. Carillo, B. Fuchssteiner, B. Konopelchenko, *The action-angle transformation for interacting solitons and the dynamics of eigenfunctions for soliton equations*, Rend. Mat., Serie VII, **II**, 201–226, (1991).   **Q4** • MR1122345 •

[15] S. Carillo, *Bäcklund Transformations and Spectral Problems: the Korteweg-deVries interacting soliton equation and the action-angle transformation*,
in: VI Workshop: Nonlinear Evolution Equations and Dynamical Systems,
V. G. Makhankov, O.K. Pashaev Eds., Springer-Verlag, (1991),

ISBN 3540532943, 9783540532941

---

[11]Chinese Web of Science: NON visibile da SAPIENZA Università di Roma che NON paga l'abbonamento. Dato l'errore per il quale l'autrice è indicata come Sandra C. e l'autore cinese ha cognome Guo (estremamente comune) non è stato possibile reperire ulteriori citazioni, neanche quelle da parte del co-autore.

[12]dal sito della rivista `https://www.springer.com/journal/10255`

[16] B. Fuchssteiner, S. Carillo, *A new class of nonlinear partial differential equations solvable by quadratures*, in: Analysis and Geometry, B. Fuchssteiner, Luxemburg W.A.J. eds, Wissenshaftsverlag, Mannheim-Leipzig-Wien-Zürig, 73–85, (1992).
ISBN 3-411-15621-X ● MR1274477 ●

[17] B. Fuchssteiner, T. Schulze, S. Carillo, *Explicit solutions for the Harry Dym equation*, J. Phys. A: Math. Gen., **25**, 223–230, (1992). doi:10.1088/030-4470/25/1/025.
● WOS:A1992HA16200025, 2-s2.0-6244284981, MR1146384 ●
Impact Factor 1.577 (2021) **Q2**

[18] S. Carillo, *The Burgers Equation: Explicit Solutions of an Initial Boundary Value Problem*, in: Lecture Notes on Numerical Fluid Mechanics, **43**, Donato A., Oliveri F. eds, Springer-Verlag, 119–126, (1993).
● WOS:A1993BD18D00014, MR1262355, ISSN: 0179-9614 ●

[19] S. Carillo, B. Fuchssteiner, *Some remarks on a Class of Ordinary Differential Equations: the Riccati Property*, in: Modern Group Analysis: Advanced Analytical Methods in Mathematical Physics, Ibragimov N.H., Torrisi M., Valenti A. eds, Kluwer Academic Pubbl., 85–97, (1993).
● WOS:A1993BA20B00008, MR1259543●

[20] W. Oevel, S. Carillo, *Squared Eigenfunction Symmetries for Soliton Equations: Part I*, J. Math. Anal. and Appl., **217**, 161–178, (1998). doi:10.1006/jmaa.1997.5707
● WOS:000071726200009, 2-s2.0-0039394289, MR1492084 ●
Impact Factor 1.417 (2021) **Q1**

[21] W. Oevel, S. Carillo, *Squared Eigenfunction Symmetries for Soliton Equations: Part II*, J. Math. Anal. and Appl., **217**, 179–199, (1998). doi:10.1006/jmaa.1997.5708
● WOS:000071726200010, 2-s2.0-0040577087, MR1492084 ●
Impact Factor 1.417 (2021) **Q1**

[22] S. Carillo, *A Hierarchy of Approximated solutions in a Linear Elasticity Equilibrium Problem*, Proceedings *WASCOM '99*, Xth International Conference on Waves and Stability in Continuous Media, V. Ciancio, A. Donato, F.Oliveri e S. Rionero ed.s, World Scientific Pubbl., Singapore, 86–93, (2001). ● MR1867440 ●

[23] S. Carillo, P. Podio-Guidugli, G. Vergara Caffarelli *Energy Estimates in Hierarchical Plate Theories*, J. Math. Anal. and Appl., **248**, 216–232, (2000). doi:10.1006/jmaa.2000.6889
● WOS:000088486100014, 2-s2.0-0034238590, MR1772593 ●
Impact Factor 1.417 (2021) **Q1**

[24] S. Carillo, *A Novel Bäcklund Invariance of a Nonlinear Differential Equation*,
J. Math. Anal. and Appl., **252**, 828–839, (2000).
doi:10.1006/jmaa.2000.7126 ● WOS:000166114700019, 2-s2.0-0034670489, MR1800178 ●
Impact Factor 1.417 (2021) **Q1**

[25] S. Carillo, *Variational Setting of a Nonlinear Interaction Problem,*

Nonlinear Analysis, **47**, 447–456, (2001).   doi:10.1016/S0362-546X(01)00190-0
• WOS:000170625400041, 2-s2.0-0035421658, MR1970664 •
Impact Factor 1.169743 (2021)   **Q1**

[26] S. Carillo, *Null Lagrangians and Surface Interaction Potentials in Nonlinear Elasticity,* in *Smart Materials* M. Fabrizio, B. Lazzari e A. Morro, Ed.s, *Series on Advances in Mathematics for Applied Sciences*, 62, World Scientific Publishing, River Edge, NJ, 9–19, (2002). doi:10.1142/9789812776273_0002.

[27] S. Carillo,   *Variational Setting of Nonlinear Equilibrium Problem: Wedge Discontinuity Lines,* Proceedings *WASCOM 2001*, 11th International Conference on Waves and Stability in Continuous Media, R. Monaco, M. Pandolfi Bianchi e S. Rionero, Ed.s, World Scientific Pubbl., River Edge, NJ, 136–143, (2002). doi:10.1142/9789812777331_0019.

• WOS:000230483300019, MR1953388 •

[28] S. Carillo, P. Podio-Guidugli, G. Vergara Caffarelli *Second-Order Surface Interaction Potentials*, in Rational Continua, Classical and New, M. Brocato e P. Podio-Guidugli Ed.s, Springer-Verlag, 19–38, (2003). doi:10.1007/978-88-470-2231-7_3 • Articolo originale su Volume internazionale, MathSciNet MR2014177 •

[29] G. Amendola, S. Carillo, *Thermal work and minimum free energy in a heat conductor with memory*, Quarterly Journal of Mechanics and Applied Mathematics, **57** (3), 429–446, (2004). doi:10.1093/qjmam/57.3.429

• WOS:000223426000008, 2-s2.0-4444342069, MR2088844 •
Impact Factor 1.067 (2021)   **Q3-Q4**

[30] S. Carillo, M. Chipot, G. Vergara Caffarelli, *A variational problem with non-local constraints*, Proceedings *WASCOM 2003*, 12th International Conference on Waves and Stability in Continuous Media, R. Monaco, S. Pennisi, S. Rionero, T. Ruggeri, Ed.s, World Scientific Pubbl., Singapore, 116–121, (2004). doi:10.1142/9789812702937_0015.

• WOS:000229998500015, MR2089839 •

[31] S. Carillo, M. Chipot, G. Vergara Caffarelli, *The N-Membrane Soft Constrained Problem* J. Math. Anal. and Appl., **308**, (1), 129–139, (2005). doi:10.1016/j.jmaa.2004.11.024
• WOS:000229812100010, 2-s2.0-19044378965, MR2141608 •
Impact Factor 1.417 (2021)   **Q1**

[32] S. Carillo, *Some Remarks on Materials with Memory: Heat Conduction and Viscoelasticity* Journal of Nonlinear Mathematical Physics, Supp 1, **12**, 163–178, (2005).
doi:10.2991/jnmp.2005.12.s1.14
• WOS:000226501000016, 2-s2.0-30444443795, MR2117178 •
Impact Factor 1.163 (2021)   **Q3**

[33] S. Carillo, *Evolution Problems in Materials with Fading Memory*,
LE MATEMATICHE, Vol. **LXII** Fasc. II, 93–105, (2007).
• WOS:000216754700008, MR2401180 •

[34] S. Carillo, *Bäcklund Charts & Applications*, Proceedings *WASCOM 2007*, 14th International Conference on Waves and Stability in Continuous Media, N. Manganaro, R. Monaco, S. Rionero, T. Ruggeri, Ed.s, World Scient. Pubbl., Singapore, 128–134, (2008). doi:10.1142/9789812772350_0020. • MR2484756 •

[35] S. Carillo, C. Schiebold, *Noncommutative Korteweg-de Vries and modified Korteweg-de Vries Hierarchies via Recursion Methods* , J. Math. Phys., **50**, (7), 073510, 14 pp, (2009). doi:10.1063/1.3155080

• WOS:000268614500029, 2-s2.0-68749111018, MR2548640 •
Impact Factor 1.469 (2021)   **Q3**

[36] S. Carillo, *Bäcklund Transformations & Heat Conduction with Memory*, Atti del Convegno *New Trends in Fluid and Solid Models* Supplementary, In honour of Brian Straughan, 28 febbraio – 1 marzo 2008, VIETRI, Salerno, World Scientific Pubbl., Ciarletta, M; Fabrizio, M; Morro, A; Rionero S., Ed.s, 8–17, (2010).
• WOS:000276145400022• **ISBN: 978-981-4293-21-1**

[37] S. Carillo, *Nonlinear Hyperbolic Equations and Linear Heat Conduction with Memory*, in *Mechanics of Microstructured Solids 2 Cellular Materials, Fibre Reinforced Solids and Soft Tissues*, Series: Lecture Notes in Applied and Computational Mechanics , Vol. 50 J.F. Ganghoffer, F. Pastrone (Eds.), VIII, 63 – 70, (2010).

• WOS:000307087500007, 2-s2.0-75649090733, MR2883410 • **ISBN: 978-3-642-05170-8**

[38] S. Carillo, *Materials with Memory: Free Energies & Solutions' Exponential Decay*, Communications on Pure And Applied Analysis, **9** (5), 1235 – 1248, (2010).
doi:10.3934/cpaa.2010.9.1235
• WOS:000277821800008, 2-s2.0-84859558695, MR2645993 •
Impact Factor 1.273 (2021)   **Q2**

[39] S. Carillo, C. Schiebold, *A non-commutative operator-hierarchy of Burgers equations and Bäcklund transformations*, in *Applied and Industrial Mathematics in Italy III: Selected Contributions from the 9th SIMAI Conference*, E. De Bernardis, R. Spigler, V. Valente Ed.s, SERIES ON ADVANCES IN MATHEMATICS FOR APPLIED SCIENCES, vol.82, pp. 175 –185, World Scientific Pubbl., Singapore, 2009; doi:10.1142/9789814280303-0016

ISBN: 978-981-4280-29-7, 981-4280-29-1;
• WOS:000275974500016, MR2838748, ZentralblattMATH •

[40] S. Carillo, V. Valente, G. Vergara Caffarelli, *A result of existence and uniqueness for an integro-differential system in magneto-viscoelasticity*, Applicable Analisys: An Interna-

tional Journal, 1563-504X, First published on 19 August 2010, **90** (12), 1791–1802, (2011). ISSN: 0003-6811,   doi:10.1080/00036811003735832

• WOS:000299684800002, 2-s2.0-84857741355, MR2847488 •
Impact Factor 1.278 (2021)   **Q2**

[41] S. Carillo, C. Schiebold *Recursion Techniques and Explicit Solutions of Integrable Noncommutative Hierarchies* Proceedings *WASCOM 2009*, 15th International Conference on Waves and Stability in Continuous Media,L A. Greco, S. Rionero, T. Ruggeri, Ed.s, World Scientific Pubbl., Singapore, 74–80, (2010).
doi:10.1142/9789814317429_0013.   • WOS:000394471300013, MR2762002 •

[42] G. Amendola, S. Carillo, A. Manes, *Classical free energies of a heat conductor with memory and the minimum free energy for its discrete spectrum model*, Bollettino U. M.l., sect. B, **3** (3), 421 – 446, (2010). ISSN: 1972-6724

• 2-s2.0-84859555221, MR2742775 •
Impact Factor 0.782 (2021)[13]   **Q2-Q3**

[43] S. Carillo, C. Schiebold, *Matrix Korteweg- de Vries and modified Korteweg-de Vries hierarchies. Noncommutative Soliton Solutions*,   J. Math. Phys., **52** (5), 053507, 21 pp., (2011). doi:10.1063/1.3576185

• WOS:000291106000032, 2-s2.0-79957899011, MR2839088 •
Impact Factor 1.469 (2021)   **Q3**

[44] S. Carillo, *Existence, Uniqueness and Exponential Decay: an Evolution Problem in Heat Conduction with Memory* Quarterly of Appl. Math., **69** (4), 635–649, (2011).
doi:10.1090/S0033-569X-2011-01223-1

• WOS:000297524200002, 2-s2.0-81155130526, MR2893993 •
Impact Factor 1.069 (2021)   **Q3**

[45] S. Carillo, *An evolution problem in materials with fading memory: solution's existence and uniqueness*, Complex Variables and Elliptic Equations An International Journal, **56** (5), 481 – 492, (2011).   doi:10.1080/17476931003786667

• WOS:000290406800007, 2-s2.0-79956134379, MR2795470 •
Impact Factor 0.765 (2021)   **Q2**

[46] S. Carillo, V. Valente, G. Vergara Caffarelli, *An existence theorem for the magneto-viscoelastic problem* Discrete and Continuous Dynamical Systems Series S. , **5** (3), ,435 – 447 (2012). doi:10.3934/dcdss.2012.5.435   **Impact Factor 1.865** (2021)   **Q1**
• WOS:000208860500006, 2-s2.0-84864460067, MR2861818 •

[47] S. Carillo, C. Schiebold, *On the recursion operator for the noncommutative Burgers hierarchy*,   J. Nonlinear Math. Phys., **19** n.ro 1, pp. 27-37 (2012);
doi:10.1142/S1402925112500039

---

[13]da https://academic-accelerator.com/Impact-of-Journal/it/AAPP-Atti-della-Accademia-Peloritana-dei-Pericolanti-Classe-di-Scienze-Fisiche-Matematiche-e-Naturali

• WOS:000302022500003, 2-s2.0-84858822229, MR2905320 •
Impact Factor 1.163 (2021)   **Q3**

[48] S. Carillo, *Nonlinear Evolution Equations: Bäcklund Transformations and Bäcklund Charts*, Acta Applicandae Mathematicae, **122**, (1), 93–106, (2012).
doi:10.1007/s10440-012-9729-8

    • WOS:000310951700009, 2-s2.0-84861463130, MR2993985 •
Impact Factor 1.563 (2021)   **Q2**

[49] S. Carillo, V. Valente, G. Vergara Caffarelli *A linear viscoelasticity problem with a singular memory kernel: an existence and uniqueness result*, Differential and Integral Equations, **26**, (9/10), 1115–1125, (2013).
doi:10.57262/die/1372858565   **Impact Factor 1.263** (2021)   **Q1**

    • WOS:000322425200013, 2-s2.0-84886518424, MR3100080 •

[50] S. Carillo, *A Singular Kernel Viscoelasticity Problem*, Memorie del XXI Congresso AIMETA 2013, Torino 17-20 Settembre 2013, CDRom, 1–10, Copyright AXEA, (2013).

[51] S. Carillo, *Fourier Series*, in *Encyclopedia of Thermal Stresses*, Hetnarski, Richard B. (Ed.) Springer- Verlag, ISBN 978-94-007-2738-0, 1794 – 1800, (2014). **229 Accesses on Springer web page**
doi:10.1007/978-94-007-2739-7_23.

[52] G. Amendola, S. Carillo, J.M. Golden, A. Manes, *Viscoelastic Fluids: Free Energies, Differential Problems and Asymptotic Behaviour* Discrete and Continuous Dynamical Systems - Series B, **19**, (7), 1815–1835, (2014).
doi:10.3934/dcdsb.2014.19.1815   **Impact Factor 1.497** (2021)   **Q2**

    • WOS:000341774400002, 2-s2.0-84912101293, MR3253232 •

[53] S. Carillo, C. Giorgi, M. Grasselli, *Special Issue dedicated to Mauro Fabrizio: foreword* Discrete and Continuous Dynamical Systems - Series B, **19**, (7), 1815–1835, (2014).
doi:10.3934/dcdsb.2014.19.1815

    • WOS:000341774400002, 2-s2.0-84912101293, MR3253232 •
Impact Factor 1.497 (2021)   **Q2**

[54] S. Carillo, V. Valente, G. Vergara Caffarelli, *Heat Conduction with Memory: a Singular Kernel Problem.* Evolution Equations and Control Theory, **3**, (3), 399–410, (2014).
doi:10.3934/eect.2014.3.399

    • WOS:000344953400005, 2-s2.0-84929454719, MR3296510 •
Impact Factor 1.169 (2021)   **Q1**

[55] S. Carillo, *Singular Kernel Problems in Materials with Memory*, Meccanica, **50**, (3), 603–615, (2015). doi:10.1007/s11012-014-0083-y

    • WOS:000347896900003, 2-s2.0-84929468458, MR3299219 •
Impact Factor 2.538 (2021)   **Q2**

[56] S. Carillo, *Erratum to: Some Remarks on Materials with Memory: Heat Conduction and Viscoelasticity*, J. Nonlinear Math. Phys., **22**, i–iii, (2015). doi:10.1080/14029251.2014.971573   **Q3**

     • WOS:000381471000001, 2-s2.0-84971501118, MR3385213 •

     Impact Factor 1.163 (2021)   **Q3**

[57] S. Carillo, C. Giorgi, *Non-classical memory kernels in linear viscoelasticity*, Chapter 13 in "Viscoelastic and Viscoplastic Materials", M.F. El-Amin Editor, InTech, ISBN 978-953-51-2602-7, 295–331, (2016). doi:10.5772/64251. **1821 Chapter downloads from publisher** https://www.intechopen.com/books/viscoelastic-and-viscoplastic-materials/ non-classical-memory-kernels-in-linear-viscoelasticity

[58] S. Carillo, M. Lo Schiavo, C. Schiebold, *Bäcklund Transformations and Non Abelian Nonlinear Evolution Equations: a novel Bäcklund Chart*, Symmetry, Integrability and Geometry: Methods and Applications (SIGMA) **12**, 087, 17 pp., (2016). doi:10.3842/SIGMA.2016.087

     • WOS:000383277400001, 2-s2.0-84986576759, MR3542030 •

     Impact Factor 0.817 (2021)   **Q4**

[59] S. Carillo, P.M. Jordan, *Second-sound in nonlinear Graffi–Franchi–Straughan type one dimensional heat conductors*, 35-38, Proceedings of The 11th International Congress THERMAL STRESSES 2016, M. Ciarletta, V. Tibullo, F. Passarella Ed.s, Paguro Editrice, S. Severino (SA), ISBN 978-88-99509-14-9, 2016.

[60] S. Carillo, *Regular and singular kernel problems in magneto-viscoelasticity*, Meccanica S.I. *New trends in Dynamics and Stability*, **52**, (13), 3053–3060, (2017). doi:10.1007/s11012-017-0722-1

     • WOS:000412684700006, 2-s2.0-85025108285, MR3709954 •

     Impact Factor 2.538 (2021)   **Q2**

[61] S. Carillo, W. D'Ambrogio, *New trends in Dynamics and Stability Preface*, Meccanica S.I. *New trends in Dynamics and Stability*, **52**, (13), 3011–3014, (2017). doi:10.1007/s11012-017-0744-8

     • WOS:000412684700001, 2-s2.0-85028303662 •

     Impact Factor 2.538 (2021)   **Q2**

[62] S. Carillo, M. Chipot, V. Valente, G. Vergara Caffarelli, *A magneto-viscoelasticity problem with a singular memory kernel*, Nonlinear Analysis Series B: Real World Applications, **35C**, 200–210, (2017). doi:10.1016/j.nonrwa.2016.10.014   **Impact Factor 2.765** (2021)   **Q1**

     • WOS:000393267100011, 2-s2.0-84996844990, MR3595323 •

[63] S. Carillo, *Regular and singular kernel problems in rigid heat conduction with memory*, in *AIMETA 2017 XXIII Conference The Italian Association of Theoretical and Applied Mechanics*, L. Ascione, et al. (Ed.s), **3**, 961–968, (2017).

     • 2-s2.0-85045722761, •

[64] S. Carillo, M. Lo Schiavo, C. Schiebold, *Recursion Operators admitted by non-Abelian Burgers equations: Some Remarks*, Mathematics and Computers in Simulation, **147C**, 40–51, (2018). doi:10.1016/j.matcom.2017.02.001
   • WOS:000425315100004, 2-s2.0-85014578707, MR3760850 •
   Impact Factor 3.601 (2021)   **Q1**

[65] S. Carillo, M. Lo Schiavo, E. Porten, C. Schiebold, *A novel noncommutative KdV-type equation, its recursion operator, and solitons*, J. Math. Phys., **59**, (4), 14 pp. (2018). doi:10.1063/1.5027481
   • WOS:000431271800031, 2-s2.0-85045104787, MR3782337 •
   Impact Factor 1.469 (2021)   **Q3**

[66] S. Carillo, F. Zullo, *Ermakov-Pinney and Emden-Fowler equations: new solutions from novel Bäcklund transformations*, Theor. Math. Phys. (Springer), **196** (3), 1268–1281 (2018).   doi:10.1134/S0040577918090027
   • 2-s2.0-85053405830, WOS:000447277900002, MR3849104 •
   Impact Factor 0.685 (2021)   **Q3-Q4**

[67] S. Carillo, *A 3-dimensional singular kernel problem in viscoelasticity: an existence result*, Atti della Accademia Peloritana dei Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali **97** (S1), A3, 13 pp. (2019).   doi:10.1478/AAPP.97S1A3

   • 2-s2.0-85066876536, WOS:000474383800004, MR3953284 •
   Impact Factor 0.769 (2021) [14]   **Q3**

[68] S. Carillo, F. Zullo, *The Gross-Pitaevskii equation: Bäcklund transformations and admitted solutions*, Ricerche di Matematica, **68** (2), 503–512, (2019). doi:10.1007/s11587-018-0422-8
   • 2-s2.0-85053427087, WOS:000495395000014??, MR4029297 •
   Impact Factor 1.166 (2021)   **Q2**

[69] S. Carillo, *KdV-type equations linked via Bäcklund transformations: remarks and perspectives*, Applied Numerical Mathematics, **141**, 81–90, (2019).
   doi:10.1016/j.apnum.2018.10.002   **Impact Factor 2.994** (2021)   **Q1**

   • 2-s2.0-85055052364, WOS:000469308700008, MR3944691 •

[70] S. Carillo, *Some remarks on the model of rigid heat conductor with memory: unbounded heat relaxation function*, Evolution Equations and Control Theory, **8** (1), 31–42, (2019). doi:10.3934/eect.2019002
   • 2-s2.0-85061857704, WOS:000462022800003, MR3923809 •
   Impact Factor 1.169 (2021)   **Q1**

---

[14]da `https://academic-accelerator.com/Impact-of-Journal/Bolletino-dell-Unione-Matematica-Italiana`

[71] S. Carillo, M. Lo Schiavo, C. Schiebold, *Abelian versus non-Abelian Bäcklund Charts: some remarks*, Evolution Equations and Control Theory, **8** (1), 43–55, (2019). doi:10.3934/eect.2019003
     • 2-s2.0-85061866201, WOS:000462022800004, MR3923810 •
Impact Factor 1.169 (2021)   **Q1**

[72] S. Carillo, M. Chipot, V. Valente, G. Vergara Caffarelli, *On weak regularity requirements of the relaxation modulus in viscoelasticity*, arXiv:**1811.06723**, Communications in Applied and Industrial Mathematics, **10** (1), 78–87, (2019). doi:10.1515/caim-2019-0014
     • 2-s2.0-85067234730, WOS:000473799800004, MR3951469 •

Impact Factor 1.175 (2021)[15]   **Q1**

[73] S. Carillo, C. Conti, D. Mansutti, F. Pitolli, R.M. Spitaleri, *MASCOT2018 Proceedings Preface*, IMACS Series in Computational and Applied Mathematics, **22**, 1–2, (2019).

[74] S. Carillo, M. Lo Schiavo, C. Schiebold, *Matrix solitons solutions of the modified Korteweg-de Vries equation*, in *Nonlinear Dynamics of Structures, Systems and Devices*, Proceedings of the First International Nonlinear Dynamics Conference (NODYCON 2019), Volume I. Lacarbonara, et al. Ed.s, 75–83, (2020). doi:10.1007/978-3-030-34713-0_8

     • 2-s2.0-85098616408, MR4350644 •

[75] S. Carillo, P.M. Jordan *On the propagation of temperature-rate waves and traveling waves in rigid conductors of the Graffi–Franchi–Straughan type*, Mathematics and Computers in Simulation, **176**, 120–133, (2020). doi:10.1016/j.matcom.2020.01.017
     • 2-s2.0-85079385866, WOS:000534533200008, MR4097980 •
Impact Factor 3.601 (2021)   **Q1**

[76] S. Carillo, M. Chipot, V. Valente, G. Vergara Caffarelli, *Magneto-elasticity on the disk*, Atti della Accademia Peloritana dei Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali, **98**, No. 2, A1, 17 pp, (2020). doi:10.1478/AAPP.982A1 • 2-s2.0-85101618399, WOS:000606835700001, MR4147013 •
Impact Factor 0.769 (2021) [16]   **Q3**

[77] S. Carillo, *The relaxation function in viscoelasticity: classical and non-classical thermodynamically admissible examples*, in *Lecture Notes in Mechanical Engineering*, A. Carcaterra, A. Paolone, G. Graziani, Ed.s, Springer Nature Switzerland AG, 1332–1339, 2020. doi:10.1007/978-3-030-41057-5_107,   Print ISBN 978-3-030-41056-8
     • 2-s2.0-85083974547, •

[78] S. Carillo, C. Conti, D. Mansutti, F. Pitolli, R.M. Spitaleri, *Applied Scientific Computing XV: Innovative Modelling and Simulation in Sciences*, Mathematics and Computers in Simulation, **176**, 1–3, (2020). doi:10.1016/j.matcom.2020.04.014
     • 2-s2.0-85083902647, WOS:000534533200001, MR4097985 •
Impact Factor 3.601 (2021)   **Q1**

---

[15]da `https://academic-accelerator.com/Impact-of-Journal/Communications-in-Applied-and-Industrial-Mathematics`

[16]da `https://academic-accelerator.com/Impact-of-Journal/it/AAPP-Atti-della-Accademia-Peloritana-dei-Pericolanti-Classe-di-Scienze-Fisiche-Matematiche-e-Naturali`

[79] D. Andreucci, R. Capitanelli, S. Carillo, M.R. Lancia, M.A. Vivaldi, *Foreword to Special Issue celebrating the Umberto Mosco's Birthday*, Rend. Mat. Appl. (7) **41**, 189–192, (2020).
● MR4194614 ●

[80] S. Carillo, C. Schiebold, *Construction of soliton solutions of the matrix Korteweg-de Vries and modified Korteweg-de Vries equations*, in Advances in Nonlinear Dynamics. NODYCON Conference Proceedings Series. Springer, Cham, ISBN 978-3-030-81169-3, W. Lacarbonara, et al. Ed.s, 481–491 (2022). doi:10.1007/978-3-030-81170-9_42, ● MR4428151 ●

[81] S. Carillo, M.G. Naso, E. Vuk, F. Zullo, *Non rectification of heat in graded Si-Ge alloys*, Advances in Nonlinear Dynamics. NODYCON Conference Proceedings Series. Springer, Cham, W. Lacarbonara, et al. Ed.s, 563–573 (2022). doi:10.1007/978-3-030-81162-4_49, ● MR4428029 ●

[82] S. Carillo, C. Schiebold, *Bäcklund transformations: a tool to study Abelian and non-Abelian nonlinear evolution equations*, in Formal and Analytic Solutions of Differential Equations, G. Filipuk, A. Lastra, S. Michalik Ed.s, 145–161, (2022), ISBN: 978-1-80061-135-1, World Scientific Publishing Co, doi:10.1142/9781800611368_0006,

● MR4507009 ●

[83] S. Carillo, A. Chichurin, G. Filipuk, F. Zullo, *A short note on the Painlevé XXV-Ermakov equation*, Applied Mathematics Letters, **131**, doi:10.1016/j.aml.2022.108064 Article number 108064 (2022).
● 2-s2.0-85127093930, WOS:000828601000019, MR4402995 ●
Impact Factor 4.294 (2021)   **Q1**

[84] S. Carillo, P.M. Jordan *On the structure of isothermal acoustic shocks under classical and artificial viscosity laws: Selected case studies*, Meccanica, Springer, **58** (6), 1121–1139 (2023), doi:10.1007/s11012-022-01613-6
● 2-s2.0-85142494838, WOS:000888681700001, MR4604400 ●
Impact Factor 2.538 (2021)   **Q2**

[85] S. Carillo, C. Giorgi, *A magneto-viscoelasticity problem with aging*, Materials, MDPI, Basel, **15**(21), 7810 (2022). doi:10.3390/ma15217810
● 2-s2.0-85141886694, WOS:000883952200001, ●
Impact Factor 3.748 (2021)   **Q2**

[86] S. Carillo, *Materials with memory: some new results in viscoelastic models*, Materials Research Proceedings, M. Di Paola, L. Frattini, F. Micari, A. Pirrotta Editors, Vol. 26, 381-385, 2023. doi:10.21741/9781644902431-62 ● 2-s2.0-85152674165●

[87] S. Carillo, P.M. Jordan, V. Nikolić, *The centennial of Becker (1922): recent trends in the modeling and analysis of dissipative, compressible flow phenomena*, **58**, 1015–1019 (2023), Meccanica, Springer (2023).   **Impact Factor 2.538** (2021)   **Q2**
doi:10.1007/s11012-023-01653-6

[88] S. Carillo, A. Chichurin, G. Filipuk, F. Zullo, *Schwarzian derivative, Painlevé XXV-Ermakov equation and Bäcklund transformations*, Mathematische Nachrichten, , **279** (1), 83–101 (2024). doi:10.1002/mana.202200180,
 • 2-s2.0-85161875639, WOS:001007827500001, MR4694583 •
Impact Factor 1,199 (2021)   **Q1**

[89] S. Carillo, C. Schiebold, *On the asymptotical description of solutions to the matrix modified Korteweg-de Vries equation*, Advances in Nonlinear Dynamics - Proc.s of the Third International Nonlinear Dynamics Conference (NODYCON 2023), Vol. 3, W. Lacarbonara, Ed. 565–575 (2024). doi:10.1007/978-3-031-50635-2_43.

[90] S. Carillo, C. Schiebold, *Soliton equations: admitted solutions and invariances via Bčklund transformations*, Open Commun. Nonlinear Math. Phys.[17], Episciences, ISSN: 2802-9356. , S.I **1**, 1–11 (2024). doi:10.46298/ocnmp.12497
 • research original article •

[91] S. Carillo, M. Chipot, *On Some Nonlocal in Time and Space Parabolic Problem*, Applied Numerical Mathematics, in press, (2024).   **Q1**

[92] S. Carillo, C. Giorgi, *Heat conduction with "aging" memory*, in revisione, 2024.

[93] S. Carillo, M. Lo Schiavo, C. Schiebold, *N-soliton matrix mKdV solutions: a step towards their classification*, in revisione, 2024.

[94] S. Carillo, C. Giorgi, *Ageing in viscoelastic and magneto-viscoelastic materials*, proceedings Aimeta 2024, Napoli, submitted, 2024.

Pubblicazioni Didattiche

[95] S. Carillo, M.R. Martinelli, F. Rosati *OK – Temi di Analisi Matematica II, con suggerimenti per l'autovalutazione*, Kappa Editrice 1997.

Preprints

[96] S. Carillo, M. Chipot, G. Vergara Caffarelli, *A viscoelastic integro-differential equation with a discountinuos memory kernel*, in preparazione, 2024.

[97] S. Carillo, C. Schiebold, F. Zullo *A fifth order nonlinear evolution equation: connection to Caudrey-Dodd-Gibbon-Sawata-Kotera and Möbius induced invariance properties*, in preparazione, 2024.

Altro

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[17]**Nuova Rivista Internazionale: "free open source"**. S.C. fa parte dell'Editorial Board che ha tra i propri scopi quello della disseminazione pubblica dei risultati senza che i grandi gruppi editorriali ne traggano guadagno. La rivista, dell'associazione "no profit" *International Society of Nonlinear Mathematical Physics* è in corso di indicizzazione su Scopus (ove parte degli articoli sono già apparsi e gli altri saranno indicizzati a breve).

[98] B. Carboni, S. Carillo, W. Lacarbonara *Shock dinamico in strutture* in ECONOMIA E INGEGNERIA, Dinamiche comparate, Osservatorio sulle Imprese Facoltà di Ingegneria Civile e Industriale Sapienza Università di Roma, R. Gallo Editor, 2022.

COMITATO DI MONITORAGGIO

[99] **Relazione A.A. 2012-13** sulle Opinioni degli Studenti Facoltà di Ingegneria Civile e Industriale.
Autori: Franco Bontempi (coordinatore), Cecilia Bartuli, Sandra Carillo, Christian Circi, Paolo Gualtieri, Paolo Viotti, scaricabile dal sito
https://www.ing.uniroma1.it/comitato-di-monitoraggio,
selezionando *Relazione OPIS 2012/2013*

COMMISSIONE PARITETICA DOCENTI-STUDENTI
relazioni tutte scaricabili dal sito
https://www.ing.uniroma1.it/commissione-paritetica-docenti-studenti
selezionando *Relazione ComPar A.A. 2013/2014, 2014/2015, 2015/2016, 2016/2017, 2017/2018 e 2019/2020*, rispettivamente.

[100] **Relazione annuale A.A. 2013/14**, della Commissione Paritetica Docenti-Studenti Facoltà di Ingegneria Civile e industriale (ICI).

Autori: Zaccaria Del Prete (DIMA) (coordinatore), Gabriele Malavasi (DICEA), Annunziata D'Orazio (DIAEE), Sandra Carillo (SBAI), Stefano Cerbelli (DICMA) Rosario Gigliotti (DISG) Alessio Di Iorio, Federico Malgarini, Sara Piermarini, Giovanni Lo Sterzo, Sasha Sala, Eros Tombesi.

[101] **Relazione annuale A.A. 2014/15**, della Commissione Paritetica Docenti-Studenti Facoltà di Ingegneria Civile e industriale (ICI).

Autori: Zaccaria Del Prete (DIMA) (coordinatore), Gabriele Malavasi (DICEA), Annunziata D'Orazio (DIAEE), Sandra Carillo (SBAI), Stefano Cerbelli (DICMA) Rosario Gigliotti (DISG) Alessio Di Iorio, Federico Malgarini, Sara Piermarini, Giovanni Lo Sterzo, Sasha Sala, Eros Tombesi.

[102] **Relazione annuale A.A. 2015/16**, della Commissione Paritetica Docenti-Studenti Facoltà di Ingegneria Civile e industriale (ICI).

Autori: Carillo, D'Orazio, Gigliotti, Napolitano, Veniali (coordinatore), Zuorro e dagli studenti Biagi, Loukas, Mazzotta, Palladino, Prencipe e Sposato.

[103] **Relazione annuale A.A. 2016/17**, della Commissione Paritetica Docenti-Studenti Facoltà di Ingegneria Civile e industriale (ICI).

Autori: Carillo, D'Orazio, Gigliotti, Napolitano, Veniali (coordinatore), Zuorro e dagli studenti Biagi, Loukas, Palladino

[104] **Relazione annuale A.A. 2017/18**, della Commissione Paritetica Docenti-Studenti Facoltà di Ingegneria Civile e industriale (ICI).

Autori: Maria Cristina Annesini, (coord.), Sandra Carillo, Francesco Costantino, Annunaziata D'Orazio, Francesco Napolitano, Stefano Vidoli, Rosario Chiarella, Caterina Levati;, Francesco Avenerio Marchetti, Francesco Sauro Mazzini, Valentina Menzione, Alessio Moricca.

[105] **Relazione annuale A.A. 2018/19**, della Commissione Paritetica Docenti-Studenti Facoltà di Ingegneria Civile e industriale (ICI).

Autori: Maria Cristina Annesini, (coord.), Sandra Carillo, Francesco Costantino, Annunaziata D'Orazio, Francesco Napolitano, Stefano Vidoli, Rosario Chiarella, Caterina Levati;, Francesco Avenerio Marchetti, Francesco Sauro Mazzini, Valentina Menzione, Alessio Moricca.

[106] **Relazione annuale A.A. 2019/20**, della Commissione Paritetica Docenti-Studenti Facoltà di Ingegneria Civile e industriale (ICI).

Autori: Maria Cristina Annesini, (coord.), Sandra Carillo, Francesco Costantino, Annunaziata D'Orazio, Francesco Napolitano, Stefano Vidoli, Rosario Chiarella, Caterina Levati;, Francesco Avenerio Marchetti, Francesco Sauro Mazzini, Valentina Menzione, Alessio Moricca.

22 Abstracts di Comunicazioni e/o Conferenze su invito

1. S. Carillo, B. Fuchssteiner *An Application of the Action-Angle Transform: the Liouville Equation*, in: Nonlinear Evolution Equations: Solitons and the Inverse Scattering Transform, Tagungsbericht 3/1990, Mathematisches Forschungsinstitut Oberwolfach, OBERWOLFACH, Repubblica Federale Tedesca, (1990);

2. S. Carillo, Guo Ben-Yu *Infiltration in Soils with prescribed Boundary Concentration*, in **SIMAI '92** 1^0 Congresso Nazionale di Matematica Applicata e Industriale, Abstracts, Consiglio Nazionale delle Ricerche, FIRENZE, (1992);

3. S. Carillo, *Bäcklund Transformations and Nonlinear Evolution Equations*, in: **SIMAI '96** 3^0 Congresso Nazionale di Matematica Applicata e Industriale, Abstracts, Consiglio Nazionale delle Ricerche, SALICE TERME (PV), (1996);

4. S. Carillo, *Nonlinear Differential Equations: a Bäcklund Approach*, **Problemi non lineari nell'analisi e nelle applicazioni fisiche, chimiche e biologiche**, MONTECATINI (PT), (1998);

5. S. Carillo, V.C. Boffi *A nonlinear differential problem in Extended Kinetic Theory*, in: **SIMAI '98** 4^0 Congresso Nazionale di Matematica Applicata e Industriale, Abstracts, Consiglio Nazionale delle Ricerche, GIARDINI NAXOS (ME), (1998);

6. S. Carillo, G. Vergara Caffarelli, P. Podio-Guidugli *On Second-Order Surface Interaction Potentials in Elasticity*, in: **SIMAI 2000** 5^0 Congresso Nazionale di Matematica Applicata e Industriale, Abstracts, Consiglio Nazionale delle Ricerche, ISCHIA (NA), (2000);

7. S. Carillo, *"Live" Surface Interactions in Elasticity*, in: *Modelli Matematici per la Scienza dei Materiali*: Incontro Scientifico, RAITO (SA), (2000);

8. S. Carillo, *Lagrangiane nulle in elasticità non lineare*, in: **Proceedings**   *Modelli Matematici per la Scienza dei Materiali*: Incontro Scientifico, BRESSANONE (BZ), (2001);

9. S. Carillo, *Symmetry Properties of Null Lagrangians*, in: **SIMAI 2002** 6^0 Congresso Nazionale di Matematica Applicata e Industriale, Abstracts, Consiglio Nazionale delle Ricerche, CHIA LAGUNA (CA), (2002);

10. S. Carillo, *Minimum free energy in heat conduction: materials with memory*, in: *Convegno UMI*, MILANO, (2003);

11. S. Carillo, *Materials with memory: minimum free energy in heat conduction and viscoelaticity*, in: *Fifth European Conference on Elliptic and Parabolic Problems: A Special Tribute to the Work of Haim Brezis*, Gaeta (LT), (2004);

12. S. Carillo, *Un problema di evoluzione in un materiale con memoria evanescente*, in: **SIMAI 2004** 7^0 Congresso Nazionale di Matematica Applicata e Industriale, Abstracts, Consiglio Nazionale delle Ricerche, ISOLA SAN SERVOLO (VE), (2004);

13. S. Carillo, *An Evolution Problem in a Material with Memory*, in: *Dissipative Models in Phase Transitions*, CORTONA (AR), (2004);

14. S. Carillo, *Esistenza ed un unicità in problemi di evoluzione in materiali con memoria*, in: *Modelli Matematici per la Scienza dei Materiali*: Incontro Scientifico, FERRARA, (2004);

15. S. Carillo, *Materials with fading Memory: existence and uniqueness results in evolution problems*, invited lecture in: *Second International Conference of Applied Mathematics*: Plovdiv, Bulgaria, August 12 – 17, (2005)   intervento non fatto;

16. S. Carillo, *An Operator Approach to Evolution Equations*, in: *Analysis, PDEs and Applications*   on the occasion of the 70th birthday of Vladimir Maz'ya, Abstract, ROMA (2008).

17. S. Carillo, *Materials with Memory & Evolution Problems*, in: **SIMAI 2008** 9^0 *Congresso Nazionale di Matematica Applicata e Industriale, Abstracts*, Consiglio Nazionale delle Ricerche, ROMA (2008);

18. S. Carillo, *Materials with Memory: Free Energies & Solution Exponential Decay*, in: *Symposium on Trends in Applications of Mathematics to Mechanics*   *XVI* STAMM Conference of the International Society for the Interaction of Mechanics and Mathematics, Abstracts, LEVICO (2008).

19. S. Carillo, *Materials with Memory: Free Energies & Solution Exponential Decay*, in: *3rd International Conference on New Trends in Fluid and Solid Models VIETRI (2010).*

20. S. Carillo, *Integro-differential systems in magneto-viscoelasticity*, in: **SIMAI 2010** 10^0 *Congresso Nazionale di Matematica Applicata e Industriale, Abstracts*, CAGLIARI (2010).

21. S. Carillo, *Bäcklund transformations, Recursion Techniques and Noncommutative soliton solutions*, in: **UCCS Mathematics Colloqium**, Colorado Springs, USA, 28 febbraio, (2011).

22. S. Carillo, *Bäcklund Charts and Noncommutative Soliton Solutions*, in: **AMSS PolyU** *Joint Research Institute Symposium Bäcklund and Reciprocal Transformations in Modern Soliton Theory*, Hong Kong, Cina, 24 –25 maggio, (2011).

23. S. Carillo, *Equazioni non lineari di evoluzione in spazi di Banach e trasformazioni di Bäcklund*, in: **XIX Congresso U.M.I.**, *Abstracts*, Bologna, 12 –17 settembre, (2011).

24. S. Carillo, *Nonlinear evolution equations: Bäcklund transformations and recursion operators*, in: **Colloquium**, *Abstract*, Sundswall, Svezia, 26 settembre, (2011).

25. S. Carillo, *Existence & Uniqueness Results in Viscoelasticity: Connections with Free Energies*, in: **SIMAI 2012** 11^0 *Congresso Nazionale di Matematica Applicata e Industriale, Abstracts*, Politecnico di Torino, TORINO (2012).

26. S. Carillo, *Free energy functionals and solutions of viscoelasticity problems*, in: *PDEs for multiphase advanced materials* **ADMAT2012**, BOOK OF ABSTRACTS, CORTONA (AR) September 17–21, (2012).

27. S. Carillo, *Energie Libere e Problemi di evoluzione in materiali con memoria*, in: **Assemblea Scientifica G.N.F.M.**, Montecatini (PT) Ottobre 4–6, (2012).

28. S. Carillo, *Evolution Problems in Materials with Memory: Free Energy Functionals*, **UCCS Mathematics Colloqium**, Colorado Springs, USA, 14 Feb., (2013).

29. S. Carillo, *Evolution Problems in Materials with Memory: Existence, Uniqueness and Exponential Decay of Solutions*, in: **The Eighth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory**, Georgia Center for Continuing Education University of Georgia, Athens, GA, USA, 25-28 March 2013, G.Biondini and T. Taha, Ed.s (2013).

30. S. Carillo, *Evolution Problems in Materials with Memory: A singular kernel integro-differential problem*, in: 4th **International Conference on New Trends in Fluid and Solid Models**, VIETRI, Salerno, april 2013;

31. S. Carillo, *Evolution Problems in Materials with Memory: A singular kernel integro-differential problem*, September (2013).

32. S. Carillo, *Singular kernel problems in materials with memory*, in Fractional Calculus, Probability and Non-local Operators: Applications and Recent Developments: Book of Abstracts, Bilbao (Spain), (2013); November 6th - 8th 2013, November 2013;

33. S. Carillo, *Evolution Problems in Materials with Memory*, Arbeitsgemeinschaft Analysis **Invited Speaker** March 2014;

34. S. Carillo, *Recent results in materials with memory*, May 2014;

35. S. Carillo, *Bäcklund Charts: commutative versus non-commutative Equation Hierarchies*, (joint work with M. Lo Schiavo & C. Schiebold), SIMAI 2014 - Taormina July 7 - 10, (2014).

36. S. Carillo, *Integro-differential linear and non linear Evolution Problems: some Recent results*, Feb 2015;

37. S. Carillo, *Regular and Singular Kernel Problems in Materials with Memory*, Invited Talk, Apr 2015, Università di Salerno, Salerno;

38. S. Carillo, *Non-commutative Bäcklund Charts*, S. Carillo, M. Lo Schiavo, C. Schiebold, S.Margherita (CA), 24-31, May 2015;

39. S. Carillo, *Regular and Singular Kernel Problems in Materials with Memory*, MASCOT, Rome, Italy, 9-12 June 2015;

40. S. Carillo, *Evolution problems in magneto-viscoelasticity*, UMI, Siena, 7-12, September 2015;

41. S. Carillo, *Magneto-viscoelasticity models: some recent results*, GENOVA, AIMETA, 14-17, September 2015;

42. S. Carillo, *Singular Kernel Problems in Materials with Memory: some new results*, April 2016;

43. S. Carillo, *Viscoelasticity and Magneto-viscoelasticity: some remarks on singular problems*, S. Carillo, EECP, 23-27, May 2016;

44. S. Carillo, P.M. Jordan, *Second-sound in nonlinear one dimensional Graffi-Franchi-Straughan type heat conductors*, 5-9, June 2016;

45. S. Carillo, *Singular kernel problems in viscoelasticity and magneto-viscoelasticity*, BERLIN (Germany) 18-22, July 2016;

46. S. Carillo, M. Lo Schiavo, C. Schiebold, *Non Abelian Nonlinear Evolution Equations & Bäcklund Transformations*, S. BERLIN (Germany) 18-22, July 2016;

47. S. Carillo, M. Lo Schiavo, C. Schiebold, *New Non Abelian Bäcklund Charts*, MILANO, 13-16, September 2016;

48. S. Carillo, M. Lo Schiavo, C. Schiebold, *Non-Abelian nonlinear evolution equations: recursion operators and a novel invariance property*, BURGOS (Spagna) 20-22 October 2016.

49. S. Carillo, *Non Abelian Nonlinear Evolution Equations and Recursion operators: Some new results*, XIAMEN (China) 10-14, December 2016.

50. S. Carillo, *KdV-type Nonlinear Evolution Equations: non-Abelian versus Abelian Baecklund Charts*, ATHENS (U.S.A.) 29.03-01.04, 2017.

51. S. Carillo, *Singular and regular kernel integro-differential equations and systems to model materials with memory*, GAETA (LT) 22-26, May 2017.

52. S. Carillo, *Materials with memory: some remarks and new results*, BRESCIA 25-27, May 2017.

53. S. Carillo, *Nonlinear Evolution Equations in Banach Spaces and Bäcklund Transformation*, BOLOGNA 12-16, June 2017.

54. S. Carillo, *Abelian and non-Abelian Bäcklund Charts*, GALLIPOLI (LE) 17-24, June 2017.

55. S. Carillo, *Singular and regular kernel problems in materials with memory*, SALERNO 4-7, September 2017.

56. S. Carillo, *Evolution problems in materials with memory: some recent results*, PALERMO, January 25-27, 2018.

57. S. Carillo, *Materials with memory: some remarks and perspectives in rigid heat conductions*, VIETRI, (Salerno), 30 January -1 February, 2018.

58. S. Carillo, M. Lo Schiavo, C. Schiebold, *Solutions of KdV and mKdV non-commutative equations*, S. Margherita di Pula, (CA), June 3-10, 2018.

59. S. Carillo, M. Lo Schiavo, C. Schiebold, *Non-Abelian Bäcklund charts & novel operator hierarchies*, ROMA, July 2-6, 2018.

60. S. Carillo, V. Valente, G. Vergara Caffarelli, *Gleanings from magneto-viscoelasticity problems*, ROMA, July 2-6, 2018.

61. *Rigid heat conduction with memory: some recent results*, S. Carillo, ROMA, 2-6, July 2018.

62. S. Carillo, *Evolution Problems in Viscoelastic Materials*, S. Carillo, Wroclaw, POLAND, September 17-20, 2018.

63. S. Carillo, *Viscoelastic and Magneto-viscoelastic Materials: an Overview on Recent Results*, ROMA, October 2-5, 2018.

64. S. Carillo, M. Lo Schiavo, C. Schiebold, *Matrix solitons solutions of the modified Korteweg-de Vries equation* ROMA, Febbruary 17-20, 2019.

65. S. Carillo, *Non classical memory kernels in viscoelasticity problems*, GAETA (LT), May 20-24, 2019.

66. S. Carillo, *Viscoelasticity problems: classical and non classical memory kernel problems*, CESENA 25-18, June 2019.

67. S. Carillo, M. Lo Schiavo, C. Schiebold, *Matrix solitons solutions of the modified Korteweg-de Vries equation*, Newcastle (GB), July 10-12, 2019.

68. S. Carillo, *The relaxation function in viscoelasticity: some non-classical thermodynamically admissible examples*, ROMA, September 15-19, 2019.

69. S. Carillo, C. Giorgi *Aging and Singular Problems in Thermo-Viscoelasticity and Magneto-Viscoelasticity*, MILANO, XXV ICTAM, 23-28 August 2020
rinviato a 22-27 August 2021.

70. S. Carillo, *La matematica: uno strumento fondamentale*[18], 19 febbraio 2020, Open Day Ingegneria Elettronica, Facoltà di Ingegneria, La Sapienza Università di Roma, ROMA

71. 15 giugno *Bäcklund transformations: a tool to study Abelian and non-Abelian nonlinear evolution equations*, in *Seminari delle Meccaniche*, online Google Meet Dipartimento di Fisica "G. Marconi", Sapienza Università di Roma, ROMA.

72. 29 – 30 giugno *Non-Abelian Nonlinear evolution equations: some recent results* in *Workshop FASnet20* (Formal and Analytic Solutions of Diff. (differential, partial differential, difference, q-difference, q-difference-differential,...) Equations on the Internet, Alcalá de Henares (Spain).

73. S. Carillo, C. Schiebold, *Construction of soliton solutions of the matrix Korteweg-de Vries and modified Korteweg-de Vries equations*, online Conference Nodycon 2021, Rome, Italy.

74. S. Carillo, M.G. Naso, E. Vuk, F. Zullo, *Non rectification of heat in graded Si-Ge alloys*, online Conference Nodycon 2021, Rome, Italy.

75. S. Carillo, Materials with memory: an overview on admissible kernels in the integro-differential model equations, 8th ECM, 21 – 25 giugno, 2021, Portoroz, Slovenia.

76. S. Carillo, *Soliton solutions of the matrix modified Korteweg-de Vries equation*, in *Workshop FASnet21* June 28-July 2, 2021 UAH, Spain.

77. S. Carillo, **invited, in presenza**, *The integro-differential model of viscoelastic body: thermodynamically admissible kernels*, in Analysis and Numerics of Design, Control and Inverse Problems July 1-7, 2021 — INdAM Workshop, Roma (Italy) & Online

78. S. Carillo, *Nonlinear differential equations & Bäcklund transformations:*
    new solutions and invariances, in The Twelfth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, March 30 - April 01, 2022 Georgia Center for Continuing Education University of Georgia, Athens, GA, USA

79. S. Carillo, *Risultati di misura, di calcolo e esatti: paragone, rappresentazione e . . . buon senso* Scuola Estiva "Applicazioni Scientifiche in ambito forense", 2022, July 4 - 9, Facoltà di Ingegneria Civile e Industriale, Sapienza Universitdi Roma, Via Eudossiana, 18, (invited talk-terza missione), Roma.

80. S. Carillo, *Viscoelasticity and magneto-viscoelasticity: an overview on recent results*, 27th International Conference on Difference Equations and Applications (ICDEA 2022), PARIS, France, July 18 - 22, 2022

81. S. Carillo, *Materials with memory: some new results in viscoelastic models*, Congresso AIMETA 2022, September 4 - 8, PALERMO

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[18]questo intervento fa parte dell'**Attività di terza missione** cui la candidata si sta dedicando per pubblicizzare la matematica ed il suo utilizzo in ambiti sempre più vari. Attualmente, fa parte del gruppo che sta organizzando il ciclo di Conferenze *Il fascino della Matematica e delle sue Applicazioni*, finanziato 'ad hoc' da Università 'La Sapienza".

82. S. Carillo, *Bäcklund transformations & noncommutative evolution equations*, MMNLP Workshop, INFN, 2022, September 18 - 21, Otranto (LECCE)

83. S. Carillo, *Bäcklund transformations and Non Commutative Nonlinear Evolution Equations*, International Conference on Nonlinear Analysis and Applications, November 22-23, 2022 - ADBU, Guwahati, India

84. S. Carillo, *A perspective cardiac model: a perturbation approach to van der Pol Equation*, Workshop *Mathematical modelling in biology and medicine*, 8-12, may 2023, Arpino (FR), Italy.

85. TS-Sweden S. Carillo, C. Giorgi, *Rigid thermodynamics with memory: some new results in nonclassical problems*, Thermal Stresses 2023, 4-8, June, 2023, Lulea, Sweden.

86. S. Carillo, *Singular and aging problems in rigid thermodynamics with memory*, 17th Joint European Thermodynamics Conference 2023, 12-17, June 2023, Salerno, Italy.

87. S. Carillo, C. Schiebold, *On the asymptotical description of soliton solutions to the matrix modified Korteweg-de Vries equation*, Conference Nodycon 2023, 18-21, June 2023, Rome, Italy.

88. S. Carillo, *Singular and aging problems in rigid thermodynamics with memory*, 17th Joint European Thermodynamics Conference 2023, 12-17, June 2023, Salerno, Italy.

89. S. Carillo, C. Schiebold, *Non-commutative soliton equations: some solutions of matrix mKdV equation*, Conference ICIAM 2023, *10th International Congress on Industrial and Applied Mathematics*, August 20-25, 2023, Tokyo, Japan.

90. S. Carillo, *Nonlinear Evolution Equations of Fifth Order: Some New and Old Results* , IMACS 2023, 11-15, September 2023, Rome, Italy.

91. S. Carillo, **Invited Speaker** *Nonlinear Soliton Equations: structural properties and new solutions via Bäcklund Transformations. An overview and open perspectives*, Mid Sweden University, Sundsvall, Sweden.

92. S. Carillo, *Bäcklund Transformations and Nonlinear non-Abelian Soliton Equations*, in International Seminar-Type Online Workshop on Noncommutative Integrable Systems, Nagoya, Japan.

93. S. Carillo, *VIscoelasticity Models In Applications*, ECCOMAS 2024, Lisbon, Portugal

94. S. Carillo, *Bäcklund transformations in Abelian and non-Abelian nonlinear evolution equations*, Bad Ems, Germany.

95. S. Carillo, *The Caudrey-Dodd-Gibbon-Sawada- Kotera and Kaup- Kupershmidt nonlinear evolution equations: new and old inveriances via Bäcklund tranformations*, Sevilla, Spain.

96. S. Carillo, *"Aging" in Materials with memory*, Congresso AIMETA 2024, September 2 - 6, NAPOLI.

97. S. Carillo, *Bäcklund transformations and nonlinear evolution equations*, *Continuous and Discrete Integrable Systems, Nonlinear PDEs and Dynamical Systems* on occasion of Paolo M. Santini's 70th birthday, September 10 - 12, Sapienza Università, Roma.

98. S. Carillo, *Viscoelastic materials: regular, singular and "ageing" models*, Modelling Complexity in Mechanics and Applied Mathematics: Theory, Experiments, and Simulations, September 16 - 20, Ortigia, SIRACUSA.