

Sandra Carillo: Elenco cronologico delle Pubblicazioni

h-index = 12 Scopus & Web of Science

75 pubblicazioni, di cui

- 1 pubblicazione didattica;
- 54 (+ 2 in press) articoli indicizzati da Web of Science (1982-2019);
- 1 articolo indicizzato da Chinese Web of Science (su Acta Mathematica Sinica, Springer-Verlag);
- 46 (+ 2 in press) articoli indicizzati da Scopus (6 non ISI);
- totale 60 (+ 2 in press +1 già in Scopus) pubblicazioni indicizzate da Web of Science o Scopus.
- 59 (+ 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 *in press* (1 già in Scopus) ISI & Scopus Journals + 2 submitted.
- Editor di 4 Volumi:
 - 2 Atti di Convegni Internazionali, 1 Book of Abstracts, rispettivamente:
 - NEEDS 1987, Springer-Verlag Editore, (1990);
 - EEMM 2010, Casa Editrice “La Sapienza” Università, (2011);
 - MASCOT 2018, IMACS Series in Computational and Applied Mathematics, (2018).
 - il Volume Speciale: *A selection of scientific papers by Vinicio C. Boffi*, Casa Editrice “La Sapienza” Università, (2014);
- Editor di 3 Special Issues di Riviste internazionali:
 - Discrete and Continuous Dynamical Systems-Series B, (2014);
 - Meccanica, Springer-Verlag Editore, (2017);
 - Mathematics and Computers in Simulation, (2019), in progress.
- 67 riassunti (di cui 49, periodo 2010 – 2019) di comunicazioni a Convegni e/o Conferenze su invito non comparse su Volumi di Atti.

**25 Co-autori e loro Nazionalità (12 stranieri):
 5 Germania, 1 Gran Bretagna, 1 Svizzera,
 1 Cina, 1 Francia, 1 ex U.R.S.S. (Novosibirsk),
 1 Irlanda, 1 U.S.A., 13 Italia.**

References

- [1] F. Bassani, A. Quattropani, S. Carillo, *Two photon transition to excited states in atomic hydrogen*, Phys. Rev. A **25**, (1982), 3079-3089; doi: 10.1103/PhysRevA.25.3079.
 • WOS:A1982NS86900022, 2-s2.0-0008859965 •
 - [2] C. Rogers, S. Carillo, *On reciprocal properties of the Caudrey-Dodd-Gibbon and Kaup-Kupershmidt hierarchies*, Physica Scripta, **36**, (1987), 865-869, doi:10.1088/0031-8949/36/6/001.
 • WOS: A1987L230300001, 2-s2.0-0001019623, MR0921595 •
 - [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, (1988), 57 – 73,
 • Articolo su Proceedings Convegno internazionale 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, (1988), 1 – 23,
 • Articolo di rassegna recensito su MathSciNet MR0964887 •
- classificazione A.M.S. **58G37** 35Q20 58F07;
- [5] S. Carillo, B. Fuchssteiner, *The abundant symmetry structure of non linear equations obtained by reciprocal links*, J. Math. Phys., **30**, (1989), pp.1606-1613, doi:10.1063/1.528604
 • WOS: A1989AC84300027, 2-s2.0-0001759082, MR1002268 •
 - [6] Ben-Yu Guo, S. Carillo, *Infiltration in soils with prescribed boundary concentration*, Acta Appl. Math. Sinica, **6**, (4), Springer-Verlag (1990), 365-369, doi: 10.1007/BF02015343
 • CSCD:**111283**⁴, 2-s2.0-34249952504, MR1090396 •

⁴sezione cinese di Web of Science NON visibile da SAPIENZA Università di Roma che NON paga l'abbonamento

- [7] 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, (1990), 351-366, ISBN 0719032733, 9780719032738 ISSN: 0266-5611
• WOS: A1990BS60Z00033 •
- [8] 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, (1990), 161-175,
• WOS: A1990BS60Z00016, •
- [9] B. Fuchssteiner, S. Carillo, *Soliton structure versus singularity analysis: third order completely integrable non linear differential equations in 1 + 1-dimensions*, Physica A, **154**, (1989), 467-510, doi: 10.1016/0378-4371(89)90260-4.
• WOS:A1989T085300005, 2-s2.0-0002407153, MR982378 •
- [10] 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 recensita su MathSciNet MR2637705 • **ISBN 978- 0315-49213-4**;
- [11] S. Carillo, B. Fuchssteiner, *The Action-Angle Transformation for the Korteweg-deVries Equation*, in: Nonlinear Evolution equations and dynamical systems, 127-130, Res. Rep. Phys., Springer, Berlin, S. Carillo, O. Ragnisco Ed.s, (1990);
• Articolo su Proceedings Convegno internazionale, MR1075823 •
- [12] S. Carillo, B. Fuchssteiner, *The Action-Angle Transformation for Soliton Equations*, Physica A, **166**, (1990), 651-676, doi:10.1016/0378-4371(90)90078-7
• WOS:A1990DV53200015, 2-s2.0-4243264964, MR1067093 •
- [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, (1991), 375-379, doi: 10.1007/3-540-53763-5_73
• Articolo su Proceedings Convegno internazionale, 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**, (1991), 201-226,

• Articolo su rivista internazionale MR1122345 •

- [15] 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, Wissenschaftsverlag, Mannheim-Leipzig-Wien-Zürig, (1992), 73-85, ISBN 3-411-15621-X

• Articolo originale su Volume internazionale MR1274477 •

- [16] 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

• Articolo su Proceedings Convegno internazionale •

- [17] B. Fuchssteiner, T. Schulze, S. Carillo, *Explicit solutions for the Harry Dym equation*, J. Phys. A: Math. Gen., **25**, (1992), 223-230,

doi: 10.1088/030-4470/25/1/025.

• WOS:A1992HA16200025, 2-s2.0-6244284981, MR1146384 •

- [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, (1993), 119-126,

• 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. (1993), 85-97,

• WOS:A1993BA20B00008, MR1259543•

- [20] W. Oevel, S. Carillo, *Squared Eigenfunction Symmetries for Soliton Equations: Part I*, J. Math. Anal. and Appl., **217**, (1998), 161-178; doi: 10.1006/jmaa.1997.5707

• WOS:000071726200009, 2-s2.0-0039394289, MR1492084 •

- [21] W. Oevel, S. Carillo, *Squared Eigenfunction Symmetries for Soliton Equations: Part II*, J. Math. Anal. and Appl., **217**, (1998), 179-199; doi: 10.1006/jmaa.1997.5708

• WOS:000071726200010, 2-s2.0-0040577087, MR1492084 •

- [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, (2001), 86-93;
- Articolo su Proceedings Convegno internazionale, MathSciNet •

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

- [24] S. Carillo, *A Novel Bäcklund Invariance of a Nonlinear Differential Equation*, J. Math. Anal. and Appl., **252**, (2000), 828-839; doi: 10.1006/jmaa.2000.7126
- WOS:000166114700019, 2-s2.0-0034670489, MathSciNet •

N.B. L'articolo [24] è citato in [65] online first e [66], in press, quindi, a breve, avrà 2 citazioni sia su Scopus che su Web of Science

- [25] S. Carillo, *Variational Setting of a Nonlinear Interaction Problem*, Nonlinear Analysis, **47**, (2001), 447-456; doi: 10.1016/S0362-546X(01)00190-0
- WOS:000170625400041, 2-s2.0-0035421658, MathSciNet •

- [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, (2002), 9-19; 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, (2002), 136-143; doi: 10.1142/9789812777331_0019.
- WOS:000230483300019, MathSciNet •

- [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, (2003), 19-38;
- Articolo originale su Volume internazionale, MathSciNet •

- [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**, (2004), 429-446; doi: 10.1093/qjmam/57.3.429

- WOS:000223426000008, 2-s2.0-4444342069, MathSciNet •
- [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, (2004), 116-121; doi: 10.1142/9789812702937_0015.
WOS:000229998500015 • Articolo su Proceedings Convegno internazionale •
- [31] S. Carillo, M. Chipot, G. Vergara Caffarelli, *The N-Membrane Soft Constrained Problem* J. Math. Anal. and Appl., **308**, n.1, (2005), 129-139; doi: 10.1016/j.jmaa.2004.11.024
• WOS:000229812100010, 2-s2.0-19044378965, MathSciNet •
- [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, MathSciNet •
- [33] S. Carillo, *Evolution Problems in Materials with Fading Memory*, LE MATEMATICHE, Vol. **LXII** Fasc. II, 93–105, (2007);
• WOS:000216754700008, MathSciNet •
- [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 Scientific Pubbl., Singapore, (2008), pp. 128-134; doi: 10.1142/9789812772350_0020.
• Articolo su Proceedings Convegno internazionale •
- [35] S. Carillo, C. Schiebold, *Noncommutative Korteweg-de Vries and modified Korteweg-de Vries Hierarchies via Recursion Methods*, J. Math. Phys., **50**, 7 (2009), 073510, 14 pp.; doi: 10.1063/1.3155080
• WOS:000268614500029, 2-s2.0-68749111018, MathSciNet •
- [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 (2010), 8-17;
ISBN: 978-981-4293-21-1
• WOS:000276145400022, Articolo su Proceedings Convegno internazionale •

- [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 • ISBN: **978-3-642-05170-8**
- [38] S. Carillo, *Materials with Memory: Free Energies & Solutions' Exponential Decay*, Communications on Pure And Applied Analysis, p. 1235 – 1248, ISSN: 1534-0392, **9**, n. 5, (2010); doi: 10.3934/cpaa.2010.9.1235
 • WOS:000277821800008, 2-s2.0-84859558695, MathSciNet •
- [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, MatSciNet, 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 International Journal, 1563-504X, First published on 19 August 2010, (2010); 1791–1802, **(90) n.ro 12**, (2011); ISSN: 0003-6811,
 doi: 10.1080/00036811003735832
 • WOS:000299684800002, 2-s2.0-84857741355, MatSciNet, •
- [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, MatSciNet •
- [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, 421 – 446 **(3) n.ro 3**, (2010); ISSN: 1972-6724
 • 2-s2.0-84859555221, MatSciNet •
- [43] S. Carillo, C. Schiebold, *Matrix Korteweg- de Vries and modified Korteweg-de Vries hierarchies. Noncommutative Soliton Solutions*, J. Math. Phys., **52**, 5 (2011), 053507, 21 pp.; doi: 10.1063/1.3576185 27-37

- WOS:000291106000032, 2-s2.0-79957899011, MathSciNet •
- [44] S. Carillo, *Existence, Uniqueness and Exponential Decay: an Evolution Problem in Heat Conduction with Memory* Quarterly of Appl. Math., **LXIX**,**4** (2011), pp. 635–649, S 0033-569X(2011)01223-1, doi: 10.1090/S0033-569X-2011-01223-1
 • WOS:000297524200002, 2-s2.0-81155130526, MathSciNet •
- [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 (2011), 481 – 492; doi: 10.1080/17476931003786667
 • WOS:000290406800007, 2-s2.0-79956134379, MathSciNet •
- [46] S. Carillo, V. Valente, G. Vergara Caffarelli, *An existence theorem for the magneto-viscoelastic problem* Discrete and Continuous Dynamical Systems Series S. , 435 – 447 (5) n.ro 3, (2012); doi: 10.3934/dcdss.2012.5.435
 • WOS:000208860500006, 2-s2.0-84864460067, MathSciNet •
- [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
 • WOS:000302022500003, 2-s2.0-84858822229, MathSciNet •
- [48] S. Carillo, *Nonlinear Evolution Equations: Bäcklund Transformations and Bäcklund Charts*, Acta Applicandae Mathematicae, **122**, 1 (2012), pp. 93-106; doi: 10.1007/s10440-012-9729-8
 • WOS:000310951700009, 2-s2.0-84861463130, MathSciNet •
- [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**, n.ro 9/10 (2013), 1115-1125;
 • WOS:000322425200013, 2-s2.0-84886518424, MathSciNet •
- [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); doi: 10.1007/978-94-007-2739-7_23. • MathSciNet • **9976 downloads da Researchgate**
110 downloads from Springer web page
https://link.springer.com/referenceworkentry/10.1007%2F978-94-007-2739-7_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 (2014), 1815-1835;
doi: 10.3934/dcdsb.2014.19.1815
• WOS:000341774400002, 2-s2.0-84912101293, MathSciNet •
- [53] S. Carillo, V. Valente, G. Vergara Caffarelli, *Heat Conduction with Memory: a Singular Kernel Problem*. Evolution Equations and Control Theory, **3**, (3), (2014), 399-410.
doi: 10.3934/eect.2014.399
• WOS:000344953400005, 2-s2.0-84929454719, MathSciNet •
- [54] S. Carillo, *Singular Kernel Problems in Materials with Memory*, Meccanica, **50**, (3), (2015), 603-615. doi: 10.1007/s11012-014-0083-y
• WOS:000347896900003, 2-s2.0-84929468458, MathSciNet •
- [55] 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
• WOS:000381471000001, 2-s2.0-84971501118, MathSciNet •
- [56] S. Carillo, C. Giorgi, *Non-classical memory kernels in linear viscoelasticity*, Chapter 13 in “Viscoelastic and Viscoplastic Materials”, M.F. El-Amin Editor, ISBN 978-953-51-2602-7, p 295-331 (2016) InTech. doi: 10.5772/64251.
- 818 Chapter downloads from publisher** <https://www.intechopen.com/books/viscoelastic-and-viscoplastic-materials/non-classical-memory-kernels-in-linear-viscoelasticity>
- [57] S. Carillo, M. Lo Schiavo, C. Schiebold, *Bäcklund Transformations and Non Abelian Non-linear Evolution Equations: a novel Bäcklund Chart*, Symmetry, Integrability and Geometry: Methods and Applications (SIGMA) **12** (2016), 087, 17 pages,
doi: 10.3842/SIGMA.2016.087
• WOS:000383277400001, 2-s2.0-84986576759, MathSciNet •
- [58] 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** (2017) pp. 200-210, Online First: 22-Nov-2016, doi: 10.1016/j.nonrwa.2016.10.014
• WOS:000393267100011, 2-s2.0-84996844990, MathSciNet •
- [59] S. Carillo, M. Lo Schiavo, C. Schiebold, *Recursion Operators admitted by non-Abelian Burgers equations: Some Remarks*, Mathematics and Computers in Simulation, **147C**, (2018) pp. 40–51. doi: 10.1016/j.matcom.2017.02.001
• WOS:000425315100004, 2-s2.0-85014578707, MR3760850 •

- [60] 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.
- [61] 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), (2018), 14 pp. <https://arxiv.org/abs/1704.03208>
• WOS:000431271800031, 2-s2.0-85045104787, MR3782337 •
- [62] S. Carillo, *Regular and singular kernel problems in magneto-viscoelasticity*, Meccanica S.I. *New trends in Dynamics and Stability*, online 19 lug, **52**, (13), 2017, pp 3053–3060. doi:10.1007/s11012-017-0722-1
• WOS:000412684700006, 2-s2.0-85025108285, MR3709954 •
- [63] S. Carillo, *Regular and singular kernel problems in rigid heat conduction with memory*, **3**, p. 961–968, 2017, AIMETA 2017 XXIII Conference The Italian Association of Theoretical and Applied Mechanics, L. Ascione, V. Berardi, L. Feo, F. Fraternali and A.M. Tralli (Ed.s) Salerno, Italy, 4–7 September 2017.
• 2-s2.0-85045722761, •
- [64] 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, •
- [65] S. Carillo, F. Zullo, *Ermakov-Pinney and Emden-Fowler equations: new solutions from novel Bäcklund transformations*, Theor. Math. Phys. (Springer), **196** (3), p. 1268–1281 (2018) doi:10.1134/S0040577918090027
• 2-s2.0-85053405830, WOS:000447277900002, MR3849104 •
- [66] S. Carillo, F. Zullo, *The Gross-Pitaevskii equation: Bäcklund transformations and admitted solutions*, ArXiv e-prints **1803.09228**, Ricerche di Matematica, doi:10.1007/s11587-018-0422-8, online 31.08 (2018).
- [67] S. Carillo, *KdV-type equations linked via Bäcklund transformations: remarks and perspectives*, Applied Numerical Mathematics, **141** (2019) pp. 81–90. doi:10.1016/j.apnum.2018.10.002
• 2-s2.0-85055052364, WOS:000469308700008, MR3944691 •
- [68] S. Carillo, *Some remarks on the model of rigid heat conductor with memory: unbounded heat relaxation function*, Evolution Equations and Control Theory, **8** (1), (2019), 31–42. doi:10.3934/eect.2019002
• 2-s2.0-85061857704, WOS:000462022800003, MR3923809 •

- [69] S. Carillo, M. Lo Schiavo, C. Schiebold, *Abelian versus non-Abelian Bäcklund Charts: some remarks*, Evolution Equations and Control Theory, **8** (1), (2019), 43-55.
doi:10.3934/eect.2019003
• 2-s2.0-85061866201, WOS:000462022800004, MR3923810 •
- [70] 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), (2019), 78-87.
doi:10.1515/caim-2019-0014
• 2-s2.0-85067234730, MR3951469, WOS:000473799800004 •
- [71] S. Carillo, M. Lo Schiavo, C. Schiebold, *Matrix solitons solutions of the modified Korteweg-de Vries equation*, NODYCON 2019 Springer Proceedings, B. Balachandran, J. Ma, W. Lacarbonara, G. Quaranta, J. Machado, G. Stepan, Ed.s, (2019), in press.
- [72] S. Carillo, P.M. Jordan *On the propagation of temperature-rate waves and traveling waves in rigid conductors of the Graffi–Franchi–Straughan type*, (2019), submitted.
- [73] S. Carillo, M. Chipot, V. Valente, G. Vergara Caffarelli, *Magneto-elasticity on the disk*, arXiv:**1906.02984**, (2019), submitted.
- [74] S. Carillo, *The relaxation function in viscoelasticity: classical and non-classical thermodynamically admissible examples*, in Lecture Notes in Mechanical Engineering, A. Paolone et al., Ed.s (2019), in press.

Pubblicazioni Didattiche

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

Pubblicazioni in corso di stesura

- [76] S. Carillo, M. Lo Schiavo, C. Schiebold, *Algebraic properties of Bäcklund Charts: commutative versus non-commutative Equation Hierarchies*.

Sommari 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^o 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^o 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^o 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^o 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^o 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 viscoelasticity*, 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^o 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 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, *Materials with Memory & Evolution Problems*, in: **SIMAI 2008** 9^o Congresso Nazionale di Matematica Applicata e Industriale, Abstracts, Consiglio Nazionale delle Ricerche, ROMA (2008);
17. 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).
18. S. Carillo, *Materials with Memory: Free Energies & Solution Exponential Decay*, in: *3rd International Conference on New Trends in Fluid and Solid Models VIETRI* (2010).
19. S. Carillo, *Integro-differential systems in magneto-viscoelasticity*, in: **SIMAI 2010** 10^o Congresso Nazionale di Matematica Applicata e Industriale, Abstracts, CAGLIARI (2010).
20. S. Carillo, *Bäcklund transformations, Recursion Techniques and Noncommutative soliton solutions*, in: **UCCS Mathematics Colloquium**, Colorado Springs, USA, 28 febbraio, (2011).
21. 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).
22. 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).
23. S. Carillo, *Nonlinear evolution equations: Bäcklund transformations and recursion operators*, in: **Colloquium**, Abstract, Sundswall, Svezia, 26 settembre, (2011).
24. S. Carillo, *Existence & Uniqueness Results in Viscoelasticity: Connections with Free Energies*, in: **SIMAI 2012** 11^o Congresso Nazionale di Matematica Applicata e Industriale, Abstracts, Politecnico di Torino, TORINO (2012).
25. 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).
26. 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).

27. S. Carillo, *Evolution Problems in Materials with Memory: Free Energy Functionals*, **UCCS Mathematics Colloquium**, Colorado Springs, USA, 14 Feb., (2013).
28. 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).
29. 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;
30. S. Carillo, *Evolution Problems in Materials with Memory: A singular kernel integro-differential problem*, September (2013).
31. 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;
32. S. Carillo, *Evolution Problems in Materials with Memory*, Arbeitsgemeinschaft Analysis Invited Speaker March 2014;
33. S. Carillo, *Recent results in materials with memory*, May 2014;
34. 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).
35. S. Carillo, *Integro-differential linear and non linear Evolution Problems: some Recent results*, Feb 2015;
36. S. Carillo, *Regular and Singular Kernel Problems in Materials with Memory*, Invited Talk, Apr 2015, Università di Salerno, Salerno;
37. S. Carillo, *Non-commutative Bäcklund Charts*, S. Carillo, M. Lo Schiavo, C. Schiebold, S.Margherita (CA), 24-31, May 2015;
38. S. Carillo, *Regular and Singular Kernel Problems in Materials with Memory*, MASCOT, Rome, Italy, 9-12 June 2015;
39. S. Carillo, *Evolution problems in magneto-viscoelasticity*, UMI, Siena, 7-12, September 2015;
40. S. Carillo, *Magneto-viscoelasticity models: some recent results*, GENOVA, AIMETA, 14-17, September 2015;
41. S. Carillo, *Singular Kernel Problems in Materials with Memory: some new results*, April 2016;
42. S. Carillo, *Viscoelasticity and Magneto-viscoelasticity: some remarks on singular problems*, S. Carillo, EECP, 23-27, May 2016;

43. S. Carillo, P.M. Jordan, *Second-sound in nonlinear one dimensional Graffi-Franchi-Straughan type heat conductors*, 5-9, June 2016;
44. S. Carillo, *Singular kernel problems in viscoelasticity and magneto-viscoelasticity*, BERLIN (Germany) 18-22, July 2016;
45. S. Carillo, M. Lo Schiavo, C. Schiebold, *Non Abelian Nonlinear Evolution Equations & Bäcklund Transformations*, S. BERLIN (Germany) 18-22, July 2016;
46. S. Carillo, M. Lo Schiavo, C. Schiebold, *New Non Abelian Bäcklund Charts*, MILANO, 13-16, September 2016;
47. 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.
48. S. Carillo, *Non Abelian Nonlinear Evolution Equations and Recursion operators: Some new results*, XIAMEN (China) 10-14, December 2016.
49. S. Carillo, *KdV-type Nonlinear Evolution Equations: non-Abelian versus Abelian Baecklund Charts*, ATHENS (U.S.A.) 29.03-01.04, 2017.
50. S. Carillo, *Singular and regular kernel integro-differential equations and systems to model materials with memory*, GAETA (LT) 22-26, May 2017.
51. S. Carillo, *Materials with memory: some remarks and new results*, BRESCIA 25-27, May 2017.
52. S. Carillo, *Nonlinear Evolution Equations in Banach Spaces and Bäcklund Transformation*, BOLOGNA 12-16, June 2017.
53. S. Carillo, *Abelian and non-Abelian Bäcklund Charts*, GALLIPOLI (LE) 17-24, June 2017.
54. S. Carillo, *Singular and regular kernel problems in materials with memory*, SALERNO 4-7, September 2017.
55. S. Carillo, *Evolution problems in materials with memory: some recent results*, PALERMO, January 25-27, 2018.
56. S. Carillo, *Materials with memory: some remarks and perspectives in rigid heat conductors*, VIETRI, (Salerno), 30 January -1 February, 2018.
57. S. Carillo, M. Lo Schiavo, C. Schiebold, *Solutions of KdV and mKdV non-commutative equations*, S. Margherita di Pula, (CA), June 3-10, 2018.
58. S. Carillo, M. Lo Schiavo, C. Schiebold, *Non-Abelian Bäcklund charts & novel operator hierarchies*, ROMA, July 2-6, 2018.
59. S. Carillo, V. Valente, G. Vergara Caffarelli, *Gleanings from magneto-viscoelasticity problems*, ROMA, July 2-6, 2018.
60. *Rigid heat conduction with memory: some recent results*, S. Carillo, ROMA, 2-6, July 2018.

61. S. Carillo, *Evolution Problems in Viscoelastic Materials*, S. Carillo, Wroclaw, POLAND, September 17-20, 2018.
62. S. Carillo, *Viscoelastic and Magneto-viscoelastic Materials: an Overview on Recent Results*, ROMA, October 2-5, 2018.
63. S. Carillo, M. Lo Schiavo, C. Schiebold, *Matrix solitons solutions of the modified Korteweg-de Vries equation* ROMA, Febbruary 17-20, 2019.
64. S. Carillo, *Non classical memory kernels in viscoelasticity problems*, GAETA (LT), May 20-24, 2019.
65. S. Carillo, *Viscoelasticity problems: classical and non classical memory kernel problems*, CESENA 25-18, June 2019.
66. S. Carillo, M. Lo Schiavo, C. Schiebold, *Matrix solitons solutions of the modified Korteweg-de Vries equation*, Newcastle (GB), July 10-12, 2019.
67. S. Carillo, *The relaxation function in viscoelasticity: some non-classical thermodynamically admissible examples*, ROMA, September 15-19, 2019.

L'ultimo intervento non è ancora fatto, ma in programma da tempo.