

21 Elenco cronologico delle Pubblicazioni

h-index = 16 Scopus

106 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;
- 62 (+ 1 in. press) indicizzati da Web of Science⁷ (1982-2022) + 2 (to appear soon);
- 1 articolo indicizzato da *Chinese Web of Science* (su *Acta Mathematica Sinica*, Springer-Verlag);
- 60 (+ 18 preprints) articoli indicizzati da Scopus (7 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.
- 74 (di cui MR4837726 prelim + 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 *submitted* 2 articoli in stesura.
- Membro Editorial Board: 4 Riviste internazionali: Applied Numerical Mathematics (classe 1), Axioms e Mathematics, Open Communications in Nonlinear Mathematical Physics.

⁷l'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 8 Special Issues di Riviste internazionali: Discrete and Continuous Dynamical Systems-Series B, Meccanica (2017 e 2023), Mathematics and Computers in Simulation (2020 e 2025), Rendiconti di Matematica e delle sue Applicazioni. Serie VII, Mechanics Research Communications (in prog), Mathematical Physics Analysis and Geometry (in prog).
 - Editor di 7 Volumi: 4 Atti di Convegni Internazionali, 2 Book of Abstracts, e di 1 Volume Speciale in memoria di V. Boffi, *Lecture notes of the abecsderian school of side*, American Mathematical Society Series on Contemporary Mathematics (CONM) (in prog).
 - Inoltre, 105 *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):
5 Germania, 2 Polonia, 1 Gran Bretagna, 1 Svizzera,
1 Cina, 1 Francia, 1 ex U.R.S.S. (Novosibirsk),
1 Irlanda, 1 U.S.A., 1 the Netherland

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 • Ph.D. Thesis ProQuest Publication MR2637705 • **ISBN 978- 0315-49213-4;**

⁸N.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)

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 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.

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doi:10.57262/die/1372858565 **Impact Factor 1.263** (2021) **Q1**
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COMITATO DI MONITORAGGIO

- [100] **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.

- [101] **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.
- [102] **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.

- [103] **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.
- [104] **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
- [105] **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, Annunziata 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. 2018/19**, della Commissione Paritetica Docenti-Studenti Facoltà di Ingegneria Civile e industriale (ICI).
Autori: Maria Cristina Annesini, (coord.), Sandra Carillo, Francesco Costantino, Annunziata D'Orazio, Francesco Napolitano, Stefano Vidoli, Rosario Chiarella, Caterina Levati, Francesco Avenerio Marchetti, Francesco Sauro Mazzini, Valentina Menzione, Alessio Moricca.
- [107] **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, Annunziata 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^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);
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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);
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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 SERVULO (VE), (2004);
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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;
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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).
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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;
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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;
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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;
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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.
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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, February 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*¹⁶, 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

¹⁶questo 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’.

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 Università di 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
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, *VIsoelasticity 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 invariances via Bäcklund transformations*, 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.
99. S. Carillo, *Bäcklund transformations in Abelian and non-Abelian nonlinear evolution equations*, The 2nd International Conference on Mathematical Analysis, Applications and Computational Simulation (2024 ICMAACS), December 6 - 8, Shanghai, China.
100. S. Carillo, *Materials with memory: regular, singular and ageing problems in integrodifferential equations arising in viscoelasticity*, The 14th AIMS Conference, December 16 - 20, Abu Dhabi, United Arab Emirates (UAE).
101. S. Carillo, *Fifth-order nonlinear evolution equations of soliton type: old and new results*, May 16 - 19 2025, Symmetry 2025, Hangzhou, China.
102. S. Carillo, *iscoelastic materials: regular, singular time dependent kernels*, June 02-06, 2025, 14th Thermal Stresses Conference, Hong Kong SAR, China.
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104. S. Carillo, C. Schiebold, *Fifth order nonlinear evolution equations: new and old invariances via Becklund transformations*, June 22 - 25, 2025, NODYCON 2025 Stevens Institute of Technology, Hoboken, NJ, USA.

105. S. Carillo, *TBA*, July 21 - 25, 2025, 15th International ISAAC Congress, Astana, Kazakhstan.

23 ELENCO DELLE 15 PUBBLICAZIONI ALLEGATO ALLA DOMANDA DI PARTECIPAZIONE

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