

CURRICULUM VITAE

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PUBLICATIONS

1. Analytic Critical Scattering Intensity with a Non-Scaling Correlation Function, M. Alexanian and M. Medina-Noyola, Phys. Rev. **A11**:1414 (1975).
2. Critical Behaviour of the Correlation Function of an Ionic Fluid, M. Medina-Noyola and D.A. McQuarrie, J. Stat. Phys. **18**:445 (1978).
3. On a Class of Extended Mean Spherical Approximations, M. Medina-Noyola, D.A. McQuarrie and W. Olivares, Chem. Phys. Lett. **58**:351 (1978).
4. On the Interaction of Spherical Double Layers, M. Medina-Noyola and D.A. McQuarrie, J. Chem. Phys. **73**:6279 (1980).
5. An Extended Mean Spherical Approximation for Coulombic Systems, M. Medina-Noyola and D.A. McQuarrie, J. Chem. Phys. **74**:3025 (1981).
6. Third Body Effects on Reactions in Liquids, S. Bose, P. Ortoleva and M. Medina-Noyola, J. Chem. Phys. **75**:1762 (1981).
7. Spatial Correlations in Nonequilibrium Systems: The Effect of Diffusion, M. Medina-Noyola and J. Keizer, Physica **107A**:437 (1981).
8. Spatial Correlations between Charged Colloidal Particles: The Mean Spherical (dense point limit) Approximation, M. Medina-Noyola, J. Chem. Phys. **77**:1428 (1982).
9. Dynamic Correlations between Charged Colloidal Particles: Coupled macroion-counterion Diffusion, M. Medina-Noyola, J. Chem. Phys. **77**:1433 (1982).
10. Spatially Nonlocal Fluctuation Theories: Hydrodynamic Fluctuations for Simple Fluids, J. Keizer and M. Medina-Noyola, Physica **115A**:301 (1982).
11. Diffusion of Charged Colloidal Particles: Spatial and Dynamic Correlations, M. Medina-Noyola, Lecture Notes in Physics **172**:235. (K.H. Bennemann, F. Brouers and D. Quitmann, eds. Springer-Verlag, Berlin, 1982).
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14. Structural Properties of Solutions of Spherical Micelles: Effect of Finite Size of Small Ions, G. Naegele, R. Klein and M. Medina-Noyola, J. Chem. Phys. **83**:2560 (1985).

15. Effect of van der Waals Forces on the Location of the Critical Point of a Model Molten Salt, J.L. Arauz-Lara and M. Medina-Noyola, J. Chem. Phys. **82**:4656 (1985).
16. Electrolyte Friction and the Langevin Equation for Charged Brownian Particles, M. Medina-Noyola and A. Vizcarra-Rendón, Phys. Rev. **A32**:3597 (1985).
17. Theory of Self-diffusion of Highly Charged Spherical Brownian Particles, J.L. Arauz-Lara and M. Medina-Noyola, J. Phys. A. Math. Gen. **19**:L117 (1986) (**letter**).
18. Time-dependent Electrolyte Friction on Charged Spherical Polyions. H. Ruiz-Estrada, A. Vizcarra-Rendón, M. Medina-Noyola and R. Klein, Phys. Rev. A **34**:3446 (1986).
19. Self-diffusion of Strongly Interacting Colloidal Particles, J.L. Arauz-Lara and M. Medina-Noyola, Kinam **7A**:135 (1986).
20. Electrolyte Friction on Charged Spherical Macroparticles: Beyond the Debye-Hückel limit, A. Vizcarra-Rendón, H. Ruiz-Estrada, M. Medina-Noyola and R. Klein, J. Chem. Phys. **86**:2976 (1987).
21. A Simple Theory for the Self-diffusion Coefficients in Binary Mixtures of Highly Charged Spherical Macroions, G. Nägele, M. Medina-Noyola, R. Klein and J.L. Arauz-Lara, Progr. Colloid and Polymer Sci. **73**:5 (1987).
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24. Self-diffusion of Charged Macroions, R. Klein, G. Nägele and M. Medina-Noyola, in "Ordering and Organisation in Ionic Solutions", N. Ise and I. Sogami, eds. (World Scientific, Singapore, 1988).
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33. Concentration Profiles of a Colloidal Mixture near a Charged Wall, P. González-Mozuelos, M. Medina-Noyola, B. D'Aguzzo, J.M. Mendez-Alcaraz, and R. Klein, *J. Chem. Phys.* **95**:2006 (1991).
34. Generalized Langevin Equation for Collective Diffusion in Colloidal Suspensions, O. Alarcón-Waess and M. Medina-Noyola, *Rev. Mex. Fis.* **37** S38-S50 (1991).
35. Tracer-diffusion in Binary Mixtures of Charged Spherical Macro-particles, J.L. Arauz-Lara, H. Ruiz-Estrada, M. Medina-Noyola, G. Nagele, and R. Klein, *Progr. Colloid Polym. Sci.* **84**:377-380 (1991).
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40. Collective Diffusion in Colloidal Suspensions: a Generalized Langevin Equation Approach, O. Alarcón-Waess and M. Medina-Noyola, *Progr. Colloid Polym. Sci.* **89**:95 (1992).

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50. Effects of the Dimensionality on the Structure of Colloidal Suspensions, M. Chavez-Páez, J.M. Méndez-Alcaraz, J.L. Arauz-Lara, and M. Medina-Noyola, *J. Colloid Interface Sci.* **179**:426(1996).
51. Tracer-diffusion of Non-spherical Colloidal Particles, M. Hernández-Contreras and M. Medina-Noyola, *Phys. Rev. E* **53**:R4306 (**Rapid Communication**), 1996).
52. Rotational Electrolyte Friction on Non-spherical Polyions, M. Hernández-Contreras, M. Medina-Noyola, and O. Alarcón-Waess, *Chem. Phys. Letters* **256**:483 (1996).
53. Generalized Langevin Equation for Non-spherical Colloidal Particles, M. Hernández Contreras, M. Medina-Noyola, and O. Alarcón-Waess, *Physica A* **231**:62-72 (1996).

54. General Theory of Tracer-diffusion in Colloidal Suspensions, M. Hernández-Contreras, M. Medina-Noyola, and A. Vizcarra-Rendón, *Physica A* **234**:271-310(1996).
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56. Rotational Diffusion of Non-spherical Brownian in a Suspension of Spheres, M. Hernández-Contreras and M. Medina-Noyola, *Phys. Rev. E* **54**:6586-6595(1996).
57. Brownian Motion in Asymmetric Two-dimensional Colloidal Mixtures, M. Chavez-Páez, J.L. Arauz-Lara, and M. Medina-Noyola, *J. Mol. Liq.* **71**:245-254(1997).
58. Rotational-Translational Electrolyte Friction on Non-spherical Particles, M. Hernández-Contreras, O. Alarcón-Waess, and M. Medina-Noyola, *J. Chem. Phys.* **106**:2492-2501(1997).
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61. Collective Dynamics in Quasi-bidimensional Colloidal Suspensions, H. Acuña-Campa, M. Carbajal-Tinoco, J.L. Arauz-Lara, and M. Medina-Noyola, *Phys. Rev. Letters* **80**:5802-5805 (1998).
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64. Intermediate-time Tracer-diffusion of Nonspherical Brownian Particles, F. de J. Guevara-Rodríguez and M. Medina-Noyola, *J. Chem Phys.* **111**: 1060-1057 (1999).
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66. Collective Diffusion in a Two-dimensional Brownian Fluid, H. Acuña-Campa and M. Medina-Noyola, *J. Chem Phys.* **113**: 869-875 (2000).
67. Overdamped van Hove Function of Colloidal Suspensions, L. Yeomans-Reyna and M. Medina-Noyola, *Phys. Rev. E* **62**: 3382-3394 (2000).
68. Vineyard-like Approximations for Colloid Dynamics, L. Yeomans-Reyna, H. Acuña-Campa and M. Medina-Noyola, *Phys. Rev. E* **62**: 3395-3403 (2000).

69. Axial and Angular Correlations between Colloidal Particles in Narrow Cylindrical Pores, M. Chavez-Páez, M. Medina-Noyola, and M.A. Valdes- Covarrubias, *Phys. Rev. E* **62**: 5179-5186 (2000).
70. Self-consistent Generalized Langevin Equation for Colloid Dynamics, L. Yeomans-Reyna and M. Medina-Noyola, *Phys. Rev. E* **64**: 066114 (2001).
71. Monte Carlo Simulation of Impurity Effects on Particle Clustering in a Supporting Solvent, por A. Zamudio, Y. Duda y M. Medina-Noyola, *Physics Letters A* **305**: 258-263 (2002).
72. Self-consistent Theory of Collective Brownian Dynamics: Theory vs. Simulation, L. Yeomans-Reyna, H. Acuña-Campa, F. de J. Guevara-Rodríguez, and M. Medina-Noyola, *Phys. Rev. E* **67**: 021108-1 a 13 (2003).
73. Dynamic Equivalence between Soft- and Hard-core Brownian Fluids, F. de J. Guevara-Rodríguez and M. Medina-Noyola, *Phys. Rev. E*, **68**: 011405-1 a -8 (2003).
74. Correlations among Colloidal Particles Confined within a Spherical Monolayer, M. Chavez-Páez, P. González-Mozuelos, M. Medina-Noyola, and J. M. Méndez-Alcaraz, *J. Chem. Phys.* **119**: 7461 (2003).
75. Polyions, Monolayers and Halos Around Large Weakly-charged Colloids, M. Chavez-Páez, P. González-Mozuelos, J. M. Méndez-Alcaraz, and M. Medina-Noyola, *Physica A* **341**: 1-22 (2004).
76. Fundamental Considerations on the Mechanisms of Silver Cementation onto Zinc Particles in the Merrill-Crowe Process, G. Viramontes-Gamboa, M. Medina Noyola, and A. Lopez Valdivieso, *J. Colloid Interface Sci.* **282**: 408-414 (2005)
77. The Effect of Cyanide and Lead Ions on the Cementation Rate, Stoichiometry, and Morphology of Silver in Cementation from Cyanide Solutions with Zinc Powder', G. Viramontes-Gamboa, M. Medina-Noyola, and A. López-Valdivieso, *Hydrometallurgy* **76**: 193-205 (2005).
78. Van Hove Function of Colloidal Mixtures: Exact Results, Marco Antonio Chávez-Rojo and Magdalena Medina-Noyola, *Physica A* **366**: 55-78(2006).
79. Self-consistent Generalized Langevin Equation for Colloidal Mixtures, Marco Antonio Chávez-Rojo and Magdalena Medina-Noyola, *Phys. Rev. E* **72**: 031107 (2005); *ibid* **76**: 039902 (2007).
80. First-principles Predictor of the Location of Ergodic-Non-ergodic Transitions, P. E. Ramírez-González, R. Juárez-Maldonado, L. Yeomans-Reyna, M. A. Chávez-Rojo, M. Chávez-Páez, A. Vizcarra-Rendón, and M. Medina-Noyola, *Rev. Mex. Fís.* **53**: 327-331 (2007).

81. Dynamic Arrest within the Self-consistent Generalized Langevin Equation of Colloid Dynamics, L. Yeomans-Reyna, M. A. Chávez-Rojo, P. E. Ramírez-González, R. Juárez-Maldonado, M. Chávez-Páez, and M. Medina-Noyola, *Phys. Rev. E* **76**: 041504 (2007).
82. State Diagram for the Electrostatic Adsorption of Charged Colloids on Confining Walls: Simulation and Theory, J.J. Liétor-Santos, M. Chávez-Páez, M. Márquez, A. Fernández-Nieves, and M. Medina-Noyola, *Phys. Rev. E* **76**: 050403 (2007).
83. Simplified Self-consistent Theory of Colloid Dynamics, R. Juárez-Maldonado, P.E. Ramírez-González, M. A. Chávez-Rojo, and M. Medina-Noyola, *Phys. Rev. E* **76**: 062502 (2007).
84. Diffusion of Colloidal Fluids in Random Porous Media, M. A. Chávez-Rojo, R. Juárez-Maldonado, and M. Medina-Noyola, *Phys. Rev. E* **77**: 040401(R) (2008)
85. Glass-liquid-glass Reentrance in Mono-component Colloidal Dispersions, P. E. Ramírez-González, A. Vizcarra-Rendón, F. de J. Guevara-Rodríguez, and M. Medina-Noyola, *J. Phys.: Cond. Matter*, **20**: 20510 (2008).
86. Theory of Dynamic Arrest in Colloidal Mixtures, R. Juárez-Maldonado and M. Medina-Noyola, *Phys. Rev. E* **77**: 051503 (2008).
87. Alternative View of Dynamic Arrest in Colloid-Polymer Mixtures, R. Juárez-Maldonado and M. Medina-Noyola, *Phys. Rev. Lett.* **101**: 267801 (2008).
88. Glass Transition in Soft-sphere Dispersions, P. E. Ramírez-González and M. Medina-Noyola, *J. Phys.: Cond. Matter* **21**: 75101 (2009).
89. Non-equilibrium Relaxation and Near-arrest Dynamics in Colloidal Suspensions, M. Medina-Noyola and P. Ramírez-González, *J. Phys.: Cond. Matter* **21**: 504103 (2009).
90. Colloid Dynamics and Transitions to Dynamically Arrested States, R. Juárez-Maldonado and M. Medina-Noyola, in *Structure and functional properties of colloidal systems*, Ed. R. Hidalgo, Surfactant Science Series, Vol. 104. (ISBN 978-1-4200-8446-7, CRC Press Taylor & Francis, 2010).
91. Generalized mean spherical approximation for the multicomponent restricted primitive model, L. E. Sánchez-Díaz, A. Vizcarra-Rendón, and M. Medina-Noyola, *J. Chem. Phys.* **132**, 234506 (2010).
92. General theory of irreversible diffusion and aging in colloidal systems, P. Ramírez-González and M. Medina-Noyola, *Phys. Rev. E* (enviado, 2009); Publicado provisionalmente en arXiv:0908.0521v1 [Cond-mat.stat-mech] 4 Aug 2009.

INVITED TALKS

1. *Generalized Langevin equation as a contraction of the description: An approach to tracer-diffusion.* Faraday Discussion 83: Brownian Motion, Cambridge, Inglaterra, 6-9 abril, 1987.
2. *Movimiento Browniano en Fluidos Complejos: Campo Venerable y Frontera Moderna de la Física.* XXXI Congreso de Investigación de la Sociedad Mex. de Fis. en Monterrey, N.L., Octubre, 1988.
3. *Propiedades Estructurales de Suspensiones Coloidales.* Sexta Escuela Mexicana de Física Estadística, Guanajuato, Gto., 8-13 Septiembre, 1991. Curso corto invitado
4. *Colloidal Systems: a Headway in Understanding Complex Fluids.* First Symposium Mexico-USA on the Frontiers of Materials Sciences, Ixtapa, Gro., 23-27 Septiembre, 1991.
5. *Generalized Langevin Equation: a Unifying Approach to Tracer-Diffusion in Suspensions,* 1st. Bilateral Symposium on the Physics of Complex Fluids. Julio de 1993, San Luis Potosí, S.L.P.
6. *Tracer Diffusion in Colloidal Suspensions,* Workshop on Bio\molecular Materials, Santa Barbara Cal., 21-31 Agosto 1994.
7. *Tracer-Diffusion of Non-spherical Colloidal Particles,* Workshop on Colloid and Interface Science: Trends and Applications, Copamarina, Puerto Rico, Mayo 3-5, 1995.
8. *Rotational Tracer-Diffusion of Interacting Non-spherical Colloidal Particles,* M. Workshop on Colloid Physics, Konstanz, Rep. Fed. Alemania, Nov.30-Dic.2, 1995. Plática Invitada.
9. *Quasi-Two Dimensional Colloidal Suspensions,* Gordon Research Conference on Macromolecular and Polyelectrolyte Solutions, Ventura, Ca., Feb 11-16, 1996.
10. *Suspensiones Coloidales Confinadas,* XLI Congreso Nacional de Física, Octubre 26-30, 1998, San Luis Potosí, S.L.P.
11. *Confined Colloidal Suspensions,* 2nd. International Workshop on Current Problems in Complex Fluids, Enero 6-9 1999, Oaxaca, Oax.
12. *The National Network of Biomolecular Materials.* Humboldt-Kolloquium in Mexiko, 29 de Abril al 1 de Mayo de 2000, Ixtapan de la Sal, Mex.
13. *Hydrodynamic Interactions in Colloidal Dispersions: a Simple Approach to a Complex Problem,* International Workshop Frontiers in Materials Science, Viña del Mar, Chile, del 21 al 25 de Mayo de 2002.

14. *Hydrodynamic Interactions in Colloidal Dispersions: a Simple Approach to a Complex Problem*, Yang Tze Conference on Fluids and Interfaces, Nanjing-Chongqing, República Popular China, del 12 al 18 de Octubre de 2002.
15. *Self-consistent Generalized Langevin Equation for Colloid Dynamics: Porous Media, Glasses, and Gels*. Symposium Non-linearity, Nonequilibrium and Complexity, Tepoztlán, (Mex.), 27 Noviembre-2 de Diciembre de 2005.
16. *Decoupling of Hydrodynamic and Conservative Forces in Colloid Dynamics*. International Workshop Bridging Nanoscale Forces and Interfacial Phenomena to the Macroscopic World, Cancún, (Mex.), 7-12 de Junio de 200.
17. *Glasses, Gels, and Dynamic Arrest in Colloidal Systems*. 6th. Workshop of Computational Chemistry and Molecular Spectroscopy, Punta de Tralca, Chile, 21-24 de Octubre de 2008.
18. *Glasses and Gels in Colloid-Polymer Mixtures as Genuine Bicomponent Systems*. Final Conference of the European Research and Training Network on Arrested Matter "Dynamic Arrest of Soft Matter and Colloids", Taormina, Sicilia, 22 al 26 de oviembre de 2008.
19. *Glasses and Gels in Colloid-Polymer Mixtures*. XXXVIII Winter Meeting on Statistical Physics, Taxco, (Mex.), 6-9 de Enero de 2009.
20. *Glasses and Gels in Colloid-Polymer Mixtures*. 2009 Advanced Institute for Materials Research Annual Workshop and 2nd Discussion Meeting on Glass Transition, Sendai, Japon, 27 Febrero a 6 de Marzo de 2009.
21. *Glasses and Gels in Multicomponent Colloidal Systems*. 6th International Discussion Meeting on Relaxations in Complex Systems, Roma, Italia, Agosto 30 a Septiembre5, 2009.
22. *Glasses and Gels in Bicomponent Colloidal Systems*, Symposium on *Colloid-Polymer Mixtures*, Spring National Meeting of the American Chemical Society, San Francisco, California on March 21-25, 2010.
23. *Dynamic arrest of Colloidal Fluids in Porous Media*, CECAM-Workshop *Complex dynamics of fluids in disordered and crowded environments*, Lyon (France) June 28th to July 1st, 2010.

Ph. D. Student Thesis

1. "Propiedades Dinámicas de suspensiones de partículas Brownianas interactuantes". José Luis Arauz Lara, 7 de Agosto de 1985. Tesis de Doctorado. Depto. de Física, CINVESTAV-IPN. (Publicaciones No. 12, 17, 19, 21 y 25 de lista de publicaciones). **Premio Weizmann de Ciencias Exactas de la Academia de la Investigación Científica 1986.**
2. "Teoría de Difusión de Trazadora en Suspensiones Coloidales". Alejandro Vizcarra Rendón, Tesis de Doctorado, Departamento de Física, CINVESTAV-IPN, 18 de Septiembre de 1989. (Publicaciones No. 20, 28, 30 de la lista de publicaciones.) **Premio Weizmann de Ciencias Exactas de la Academia de la Investigación Científica 1990.**
3. "Estructura Estática y Movimiento Browniano en Suspensiones Coloidales Polidispersas". Honorina Ruiz Estrada, Tesis de Doctorado, Departamento de Física, CINVESTAV-IPN, 23 de Noviembre de 1990. Asesores: B. J. L. Arauz Lara y M. Medina Noyola (Publicaciones No. 31, 34, 36 de lista de publicaciones).
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