

EJERCICIOS MATHSCINET

IMPORTANTE: ESTOS SON LOS RESULTADOS QUE ARROJA LA PLATAFORMA EL 3 DE ABRIL DE 2020.

1. ¿En cuántas publicaciones figura como autor el matemático Jean-Pierre Serre? ¿En cuántas aparece como editor?

Accedemos a la página del autor ([Página principal](#) > [Autores](#)), desde la que podemos responder a la primera de las preguntas: Jean-Pierre Serre aparece como autor de **272** publicaciones. Para resolver la segunda cuestión deberemos consultar las publicaciones relacionadas. Estas son 70 en total; pero no olvidemos que estas publicaciones pueden estar relacionadas con el autor por muy diversos motivos: homenajes, entrevistas, contribuciones de distinto tipo... Deberemos entonces pulsar sobre *Related Publications* para acceder al listado e identificar las **17** obras editadas por el autor.



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University de Oviedo 



Serre, Jean-Pierre

MR Author ID: **158970**
Earliest Indexed Publication: [1949](#)
Total Publications: 272
Total Related Publications: 70
Total Citations: **16312**

Published as: Serr, J. P. (3)

Serr, J.-P. (1)
Serre, J.-P. (3)
Serre, J. P. (1)
Serre, J.-P. (57)
Serre, Jean-Pierre (277)
X.X.X. (1)
Ceppe, Ж.-П. (1)

[Publications](#)
[Related Publications](#)
[Reviews](#)
[Refine Search](#)
[Co-Authors](#)
[Collaboration Distance](#)
[Mathematics Genealogy Project](#)
[MacTutor History of Mathematics Archive](#)
[Citations](#)

Co-authors (by number of collaborations)

Arthur, James Greig	Artin, Michael	Atiyah, Michael
Francis	Bass, Hyman	Bayer-Fluckiger, Eva
Bertin,	Jean-Étienne	Bombieri, Enrico
Borel,	Armand	Cartan, Henri Paul
Chandrasekharan,	Komaravolu	Chern, Shiing Shen
Chernousov, Vladimir I.	Chowla, Sarvadaman	Deligne, Pierre
Demazure,	Michel	Ekedahl, Torsten
Fröhlich, Albrecht	Gabriel,	Peter
Garibaldi, Ryan Skip	Goresky, Mark	Grothendieck, Alexander
Herz, Carl S.	Hiltebeitel, Friedrich Ernst Peter	Hodge, David

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2. ¿Cuáles son los cinco artículos sobre lógica difusa (fuzzy logic) más citados?

En Página principal, nos dirigimos a la pestaña Citations y de ahí a Search by Subjects. Debemos consultar la Mathematics Subject Classification 2020 para conocer la clasificación del tema: en este caso **03B52**. A continuación, en Publication Type seleccionamos Journals.

The screenshot shows the MathSciNet search interface. At the top, there are navigation links: [Página principal](#), [Preferencias](#), [Nuevas herramientas](#), [¿Qué es?](#), [Librarians](#), [Reviewers](#), [Terms of Use](#), and [Blog](#). The MathSciNet logo is on the left, and the University of Oviedo logo is on the right. Below the navigation bar, there are tabs: [Citaciones: Autores](#), [Citaciones: Revistas](#), [Search by Subject](#), [Search by Year](#), and [Top 10 Lists](#). The main heading is "Search for highly cited articles by subject in the MR Citation Database". Below this, there are three input fields: "Subject classification" with the value "03B52", "Publication Type" with a dropdown menu showing "Journals", and "Citations to display" with a dropdown menu showing "10". A "Search" button is located below these fields. The search results are displayed in a table with two columns: "Citations" and "Publication".

Citations	Publication
151	MR1860848 (2002h:03050) Esteve, Francesc; Godo, Lluís Monoidal t-norm based logic: towards a logic for left-continuous t-norms. Fuzzy logic (Palma, 1999/Liptovský Ján, 2000). <i>Fuzzy Sets and Systems</i> 124 (2001), no. 3, 271–288. 03B52 (03E72)
77	MR0524558 (80j:03038a) Pavelka, Jan On fuzzy logic. I. Many-valued rules of inference. <i>Z. Math. Logik Grundlagen Math.</i> 25 (1979), no. 1, 45–52. (Reviewer: Settimo Termini) 03B52 (03E72)
53	MR1894392 (2003b:03030) Jenei, Sándor; Montagna, Franco A proof of standard completeness for Esteve and Godo's logic MTL. <i>Studia Logica</i> 70 (2002), no. 2, 183–192. 03B52 (03B47)
47	MR1774568 (2001d:03066) Esteve, F.; Godo, L. Putting together Łukasiewicz and product logics. 8th Spanish Congress on Fuzzy Logic and Technology (Pamplona, 1998). <i>Mathware Soft Comput.</i> 6 (1999), no. 2-3, 219–234. 03B52 (03G25)
40	MR2354903 (2008k:03057) Metcalfe, George; Montagna, Franco Substructural fuzzy logics. <i>J. Symbolic Logic</i> 72 (2007), no. 3, 834–864. (Reviewer: Siegfried Gottwald) 03B52 (03B47 03B50 03F52 03G10)
	MR1486256 (99c:03038) Zadeh, Lotfi A. Toward a theory of fuzzy information granulation and its

3. ¿Cuántos artículos publicó la matemática Irene Fonseca entre 2015 y 2017, ambos inclusive? ¿A qué temáticas se adscribe cada uno de ellos? Basta con que indique su temática principal.

En Página principal > Publicaciones, introducimos el nombre de la autora como término de búsqueda (en la secuencia *apellido nombre*, sin coma entre ellos) y utilizamos los limitadores de la búsqueda en los bloques ¿Cuándo? Y Tipo de documento.

The screenshot shows the MathSciNet search interface. At the top, there are navigation links: [Página principal](#), [Preferencias](#), [Nuevas herramientas](#), [¿Qué es?](#), [Librarians](#), [Reviewers](#), [Terms of Use](#), and [Blog](#). The MathSciNet logo is on the left, and the University of Oviedo logo is on the right. Below the navigation bar, there are tabs: [Publicaciones](#), [Autores](#), [Revistas](#), and [Citations](#). The main heading is "Términos de la búsqueda". Below this, there are four input fields: "Autor" with the value "fonseca irene", "Título", "MSC primaria", and "Dondequiera". Below these fields, there are two sections: "¿Cuándo?" and "Tipo de documento". The "¿Cuándo?" section has a radio button for "Base de datos entera" and a dropdown menu for "Año" with the value "Años: 2015 a 2017". The "Tipo de documento" section has a radio button for "Todos" and a dropdown menu for "Revistas". Below these sections, there are two buttons: "Buscar" and "Borrar". At the bottom, there is a footer with the text "Hechos y cifras: 3,780,612 registros totales" and links for "Ayuda" and "Correo de soporte".

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University de Oviedo

Matches: 14

Batch Download: **Reviews (HTML)** | Retrieve Marked | Retrieve First 50 | Mark All | Unmark All

Publications results for "(Author=(fonseca irene) AND Publication Type=(Journals)) AND pubyear in [2015 2017]"

Sort by: **Newest**

Search within results

Item Type

☒ Reviewed (12)

☐ Indexed (2)

Institutions

☒ Department of Mathematics, Carnegie Mellon University (25)

☐ Department of Mathematics, Universität Wien (2)

☐ Department of Mathematics (2)

Authors

☒ Fonseca, Irene (14)

☐ Leoni, Giovanni (6)

☐ Davoli, Elisa (3)

☐ Bufford, Laura (2)

☐ Dacorogna, Bernard (2)

☐ Mingione, Giuseppe (2)

Primary Classification

☐ Calculus of variations and optimal control; optimization (6)

☐ Partial differential equations (4)

☐ History and biography (2)

☐ Statistical (1)

Journal

☐ Calc. Var. Partial Differential Equations (3)

☐ Nonlinear Anal. (3)

☐ Port. Math. (2)

☐ Anal. PDE (1)

☐ Comm. Partial Differential Equations (1)

Year

☐ 2017 (5)

☐ 2016 (3)

☐ 2015 (6)

Matches: 14

MR372325 [Reviewed] Fonseca, Irene; Liu, Pan The weighted Ambrosio-Tortorelli approximation scheme. *SIAM J. Math. Anal.* 49 (2017), no. 6, 4491–4520. (Reviewer: Andrew Bucki) **49Q20** (26B30 28A25)
HTML | Clipboard | Journal | Article

MR3695373 [Reviewed] Ferreira, Rita; Fonseca, Irene; Mascarenhas, M. Luísa A chromaticity-brightness model for color images denoising in a Meyer's "u + v" framework. *Calc. Var. Partial Differential Equations* 56 (2017), no. 5, Paper No. 140, 53 pp. (Reviewer: A. K. Nandakumar) **94A08** (26B30 49J45)
HTML | Clipboard | Journal | Article | 2 Citations

MR3614658 [Indexed] Dacorogna, Bernard; Fonseca, Irene; Mingione, Giuseppe The various stages of Nicola Fusco [editorial]. *Nonlinear Anal.* 153 (2017), 2–6. **01A70**
HTML | Clipboard | Journal | Article

MR3614646 [Reviewed] Fonseca, I.; Leoni, G.; Morini, M. Equilibria and dislocations in epitaxial growth. *Nonlinear Anal.* 154 (2017), 88–121. (Reviewer: Luc Rey-Bellet) **82D25**
HTML | Clipboard | Journal | Article | 1 Citation

MR3614640 [Indexed] Dacorogna, Bernard; Fonseca, Irene; Mingione, Giuseppe The various stages of Nicola Fusco [Editorial]. *Nonlinear Anal.* 154 (2017), 2–6. **01A70**
HTML | Clipboard | Journal | Article

MR3580790 [Reviewed] Davoli, Elisa; Fonseca, Irene Periodic homogenization of integral energies under space-dependent differential constraints. *Port. Math.* 73 (2016), no. 4, 279–317. (Reviewer: Pablo Pedregal) **49J45** (35B27)
HTML | Clipboard | Journal | Article

MR3551271 [Reviewed] Fonseca, Irene; Hayrapetyan, Guren; Leoni, Giovanni; Zwignagl, Barbara Domain formation in membranes near the onset of instability. *J. Nonlinear Sci.* 26 (2016), no. 5, 1191–1225. (Reviewer: Georgios Psaradakis) **49J45** (35B25 35J25 74K15 92C37)
HTML | Clipboard | Journal | Article | 2 Citations

MR3508175 [Reviewed] Davoli, Elisa; Fonseca, Irene Homogenization of integral energies under periodically oscillating differential constraints. *Calc. Var. Partial Differential Equations* 55 (2016), no. 3, Art. 69, 60 pp. (Reviewer: Giovanni Scilla) **49J45** (35B27 35J15 35J25 49K20)
HTML | Clipboard | Journal | Article | 3 Citations

MR3395443 [Reviewed] Bufford, Laura; Fonseca, Irene A note on two scale compactness for $p = 1$. *Port. Math.* 72 (2015), no. 2-3, 101–117. (Reviewer: Ravi Prakash) **49J45** (35B27 49J40)
HTML | Clipboard | Journal | Article

MR3391834 [Reviewed] Fonseca, Irene; Leoni, Giovanni; Lu, Xin Yang Regularity in time for weak solutions of a continuum model for epitaxial growth with elasticity on vicinal surfaces. *Comm. Partial Differential Equations* 40 (2015), no. 10, 1942–1957. (Reviewer: Jeffrey R. Anderson) **35K55** (35K65 35K67 44A15 74K35)
HTML | Clipboard | Journal | Article | 11 Citations

MR3385194 [Reviewed] Dal Maso, Gianni; Fonseca, Irene; Leoni, Giovanni Second order asymptotic development for the anisotropic Cahn-Hilliard functional. *Calc. Var. Partial Differential Equations* 54 (2015), no. 1, 1119–1145. (Reviewer: Pietro Celada) **49J45** (35B25 49Q20)
HTML | Clipboard | Journal | Article | 4 Citations

MR3351176 [Reviewed] Bufford, Laura; Davoli, Elisa; Fonseca, Irene Multiscale homogenization in Kirchhoff's nonlinear plate theory. *Math. Models Methods Appl. Sci.* 25 (2015), no. 9, 1765–1812. (Reviewer: Ben W. Schweizer) **35B27** (49J45 74B20 74E30)
HTML | Clipboard | Journal | Article | 1 Citation

MR3345632 [Reviewed] Fonseca, Irene; Fusco, Nicola; Leoni, Giovanni; Morini, Massimiliano Motion of three-dimensional elastic films by anisotropic surface diffusion with curvature regularization. *Anal. PDE* 8 (2015), no. 2, 373–423. (Reviewer: Guren Hayrapetyan) **35K25** (35B40 35Q74 37B25 53C44 74K35)
HTML | Clipboard | Journal | Article | 4 Citations

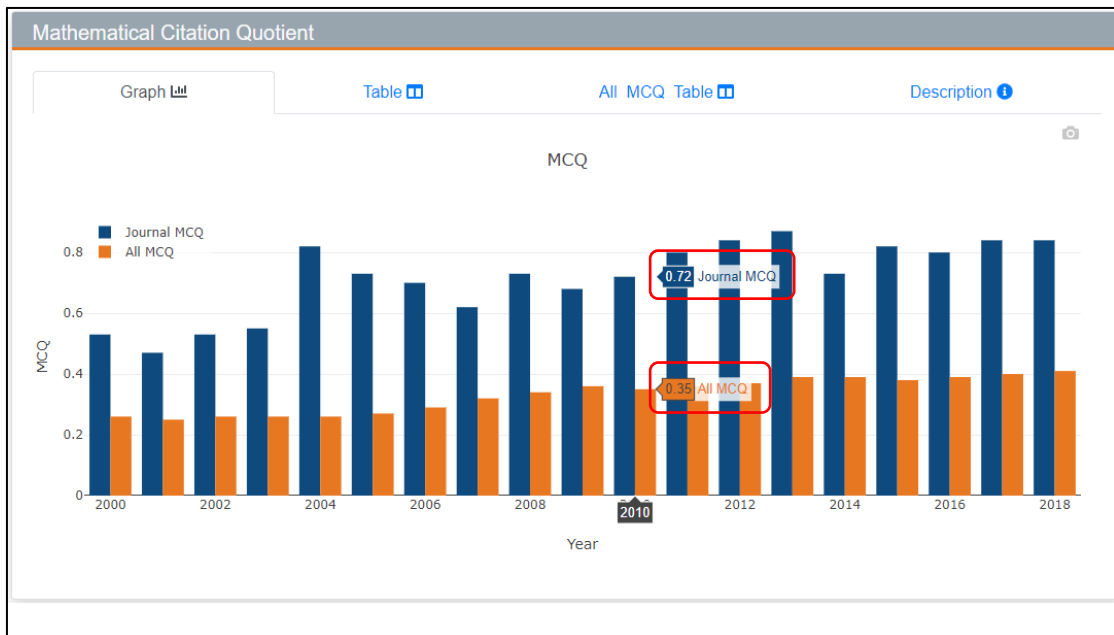
MR3323554 [Reviewed] Blass, T.; Fonseca, I.; Leoni, G.; Morandotti, M. Dynamics for systems of screw dislocations. *SIAM J. Appl. Math.* 75 (2015), no. 2, 393–419. (Reviewer: Corina-Ştefania Drapaca) **35Q74** (34A60 35J15 49J40 74Bxx 82D25)
HTML | Clipboard | Journal | Article | 11 Citations

Utilizando la MSC, resolvemos la segunda parte del ejercicio:

- **94A08:** Image processing (compression, reconstruction, etc.) in information and communication theory.
- **01A70:** Biographies, obituaries, personalia, bibliographies.
- **82D25:** Statistical mechanical studies of crystals.
- **49J45:** Methods involving semicontinuity and convergence; relaxation.
- **35K55:** Nonlinear parabolic equations.
- **35B27:** Homogenization in context of PDEs; PDEs in media with periodic structure.
- **35K25:** Higher-order parabolic equations.
- **35Q74:** PDEs in connection with mechanics of deformable solids.

4. ¿Cuál es el índice MCQ de la revista *Advances in Applied Mathematics* para 2010? ¿Es mayor o menor que el All MCQ? Si observamos el MCQ de la revista para 2017, ¿ha aumentado o disminuido?

Accedemos al perfil de la revista ([Página principal](#) > [Revistas](#)) y localizamos el bloque *Mathematical Citation Quotient*, que podemos consultar en forma de gráfico o de tabla.



Mathematical Citation Quotient

[Graph](#) [Table](#) [All MCQ Table](#) [Description](#)

MCQ for Adv. in Appl. Math.

Year	MCQ	Cit.(5yr)	Pub.(5yr)
2018	0.84	251	298
2017	0.84	248	294
2016	0.80	253	317
2015	0.82	264	321
2014	0.73	233	320
2013	0.87	276	318
2012	0.84	259	310
2011	0.80	224	280
2010	0.72	209	289
2009	0.68	215	318
2008	0.73	235	324

5. ¿Cuántos libros sobre ecuaciones en derivadas parciales (*partial differential equations*) han sido revisados en los últimos 6 meses?

En Nuevas herramientas > Publicaciones actuales, seleccionamos el periodo cronológico, la materia que buscamos (**35**), el tipo de documento y el tratamiento que ha recibido.

The screenshot shows the MATHSCINET search interface. The top navigation bar includes links: [Página principal](#), [Preferencias](#), [Nuevas herramientas](#), [¿Qué es?](#), [Librarians](#), [Reviewers](#), [Terms of Use](#), and [Blog](#). The University of Oviedo logo is on the right. Below the navigation bar, there are tabs: [Busqueda en MSC](#), [Distancia entre colaboradores](#), [Revistas actuales](#), and [Publicaciones actuales](#). The [Publicaciones actuales](#) tab is selected. The search criteria are as follows:

- ¿Cuándo?** (When?): [hace 6 meses](#) (6 months ago)
- Clasificación** (Classification): [35 Partial differential equations](#)
- Tipo de documento** (Document type): [Libros](#) (Books)
- Tratamiento** (Treatment): [Con revisiones](#) (With reviews)

Buttons for [Buscar](#) (Search) and [Borrar](#) (Clear) are at the bottom. The footer includes the AMS logo, copyright information (© Copyright 2020, American Mathematical Society), and a [Confidencialidad](#) (Privacy) link.

The screenshot shows the MATHSCINET search results page. The top navigation bar is the same as the previous screenshot. The search criteria are repeated: [hace 6 meses](#), [35 Partial differential equations](#), [Libros](#), and [Con revisiones](#). The results are sorted by [Newest](#). The page shows 4 matches. The first match is:

MR3890036 [Reviewed](#) Alikakos, Nicholas D.; Fusco, Giorgio; Smyrnelis, Panayotis Elliptic systems of phase transition type. *Progress in Nonlinear Differential Equations and their Applications*, 91. Birkhäuser/Springer, Cham, 2018. xii+343 pp. ISBN: 978-3-319-90571-6; 978-3-319-90572-3 (Reviewer: Juha K. Kinnunen) [35-02 \(34B15 35B05 35B06 35J47 35J91\)](#)

The second match is:

MR3839343 [Reviewed](#) Gie, Gung-Min; Hamouda, Makram; Jung, Chang-Yeol; Temam, Roger M. Singular perturbations and boundary layers. *Applied Mathematical Sciences*, 200. Springer, Cham, 2018. xviii+412 pp. ISBN: 978-3-030-00637-2; 978-3-030-00638-9 (Reviewer: Hans Babovsky) [35-02 \(35B25 35C20 35Q30 76M45\)](#)

The third match is:

MR3837146 [Reviewed](#) Glebov, Sergey G.; Kiselev, Oleg M.; Tarkhanov, Nikolai N. Nonlinear equations with small parameter. Vol. 2. Waves and boundary problems. *De Gruyter Series in Nonlinear Analysis and Applications*, 23/2. De Gruyter, Berlin, 2018. xviii+422 pp. ISBN: 978-3-11-053383-5; 978-3-11-053390-3; 978-3-11-033569-9 (Reviewer: Paolo Musolino) [35-02 \(35C20 35Q51 35Q53 35Q55\)](#)

The fourth match is:

MR3837125 [Reviewed](#) Krylov, N. V. Sobolev and viscosity solutions for fully nonlinear elliptic and parabolic equations. *Mathematical Surveys and Monographs*, 233. American Mathematical Society, Providence, RI, 2018. xiv+441 pp. ISBN: 978-1-4704-4740-3 (Reviewer: Fabiana Leoni) [35-02 \(35J60 35K55\)](#)

The left sidebar shows filters for **Item Type** (Reviewed (4)), **Institutions** (Centro de Modelamiento Matemático, University of Chile (1), Chair of Mathematics, Ufa State Petroleum Technological University (1)), and **Authors** (Alikakos, (1)).