3. A complete metric space X contains a topological copy of M_1^2 if and only if X contains a subset with the bypass property [Prajs 1998a].

4. The group of all autohomeomorphisms of M_1^2 has exactly two orbits: one of them is the union of all simple closed curves which are the boundaries of complementary domains of M_1^2 [Krasinkiewicz 1969].

   The group is a Polish topological group which is totally disconnected and one-dimensional (see [Brechner 1966, Theorem 1.2] and Property 7 in 1.4.1).

5. Any homeomorphism between Cartesian products of copies of the Sierpiński carpet is factor preserving [Kennedy Phelps 1980]. Consequently, no such product is homogeneous.

6. The Sierpiński carpet can be continuously decomposed into pseudo-arcs such that the decomposition space is homeomorphic to the carpet [Prajs 1998b, Corollary 18], [Seaquist 1995]. In fact, M_1^2 is the only planar locally connected curve admitting such a decomposition [Prajs 1998b, Corollary 18].

7. The Sierpiński carpet is homogeneous with respect to monotone open mappings [Prajs 1998b, Corollary 24], [Seaquist 1999]. Moreover, every continuum which is locally homeomorphic to M_1^2 (i. e., M_1^2-manifold) is homogeneous with respect to monotone open mappings [Prajs 1998b, Theorem 23].

8. M_1^2 is homogeneous with respect to the class of simple mappings [Charatonik 1984].

9. If C is a curve, then the set of all mappings $f : C \to \mathbb{R}^2$ such that $f(C)$ is homeomorphic to M_1^2 is a residual subset of the space $(\mathbb{R}^2)^C$ of all mappings of C into $\mathbb{R}^2$ with the uniform convergence metric.

   If $C(X)$ is the hyperspace of all subcontinua of a compact space X and $C_1(X)$ its subspace of all curves, then the set

   $$\{ (C, f) \in C(X) \times (\mathbb{R}^2)^X : f(C) \text{ is homeomorphic to } M_1^2 \}$$

   is residual in $C(X) \times (\mathbb{R}^2)^X$; in other words, almost all mappings in $(\mathbb{R}^2)^X$ map almost all curves in X onto copies of M_1^2, where "almost all" means all with except of a subset of the first category in corresponding spaces [Mazurkiewicz 1938].

10. If a locally compact space X contains a topological copy of the Sierpiński carpet, then the space of all copies of the Sierpiński carpets in X with the Hausdorff metricHausdorff metric is a true absolute $F_{\sigma\delta}$-set [Krupski XXXXb].